
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, DC 20549

**AMENDMENT NO. 1
TO
FORM S-1
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

AMEDICA CORPORATION

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

3841
(Primary Standard Industrial
Classification Code Number)

84-1375299
(IRS Employer
Identification No.)

**615 Arapeen Drive
Suite 302
Salt Lake City, Utah 84108
(801) 583-5100**

(Address, including zip code, and telephone number,
including area code, of registrant's principal executive offices)

**Ashok C. Khandkar, Ph.D.
Chief Executive Officer
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(Name, address, including zip code, and telephone number,
including area code, of agent for service)

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Approximate date of commencement of proposed sale to public: As soon as practicable after this Registration Statement becomes effective.

If any of the securities being registered on this Form are being offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier registration statement for the same offering.

The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act or until the Registration Statement shall become effective on such date as the Securities and Exchange Commission, acting pursuant to Section 8(a), may determine.

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The Information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell securities, and we are not soliciting offers to buy these securities, in any state where the offer or sale is not permitted.

PROSPECTUS (Subject to Completion)
Issued June 27, 2007

Shares



Amedica Corporation is offering _____ shares of its common stock. This is our initial public offering and no public market currently exists for our shares. We anticipate that the initial public offering price will be between \$ _____ and \$ _____ per share.

We have applied to have our common stock approved for listing on The NASDAQ Global Market under the symbol "AMCA."

Investing in our common stock involves risks. See "[Risk Factors](#)" beginning on page 9.

PRICE \$ _____ A SHARE

<i>Per Share</i>	<i>Price to Public</i>	<i>Underwriting Discounts and Commissions</i>	<i>Proceeds to Amedica</i>
<i>Total</i>	<i>\$ _____</i>	<i>\$ _____</i>	<i>\$ _____</i>

We have granted the underwriters the right to purchase up to an additional _____ shares of common stock to cover over-allotments.

The Securities and Exchange Commission and state securities regulators have not approved or disapproved these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The underwriters expect to deliver the shares to purchasers on or about _____, 2007.

MORGAN STANLEY

JEFFERIES & COMPANY

CIBC WORLD MARKETS

, 2007

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You should rely only on the information contained in this prospectus or contained in any free writing prospectus that we may authorize to be delivered to you. We have not, and the underwriters have not, authorized any other person to provide you with information different from, or in addition to, that contained in this prospectus or any related free writing prospectus. We are offering to sell, and seeking offers to buy, shares of common stock only in jurisdictions where offers and sales are permitted. The information contained in this prospectus or any related free writing prospectus is accurate only as of its date, regardless of the time of its delivery, or of any sale of common stock.

Through and including _____, 2007 (25 days after the date of this prospectus), all dealers that buy, sell or trade shares of our common stock, whether or not participating in this offering, may be required to deliver a prospectus. This delivery requirement is in addition to the obligation of dealers to deliver a prospectus when acting as underwriters and with respect to their unsold allotments or subscriptions.

For investors outside the United States: Neither we nor any of the underwriters have done anything that would permit this offering or possession or distribution of this prospectus in any jurisdiction where action for that purpose is required, other than in the United States. You are required to inform yourselves about and to observe any restrictions relating to this offering and the distribution of this prospectus.

PROSPECTUS SUMMARY

This summary highlights what we believe are the most important features of this offering and the information contained elsewhere in this prospectus. This summary is not complete and does not contain all of the information that you should consider before investing in our common stock. You should read the entire prospectus carefully, including "Risk Factors" and our financial statements and the related notes included in this prospectus. Unless the context requires otherwise, references to "Amedica," "we," "our" and "us" in this prospectus refer to Amedica Corporation.

AMEDICA CORPORATION

Overview

We are an orthopedic implants company focused on using our silicon nitride ceramic technologies to develop, manufacture and commercialize a broad range of advanced, high-performance spine and joint implants. We have developed a formulation of silicon nitride which we believe has the strength, toughness and wear resistance necessary to overcome the limitations of currently available orthopedic implants. Upon introduction to market, we believe our implants will represent the first commercial use of silicon nitride ceramics in orthopedic applications and will have the potential to provide an improved combination of characteristics, including greater strength and resistance to fracture, improved resistance to wear, greater ability to promote bone attachment and better compatibility with surgical and diagnostic imaging. Based on these potential advantages, we believe our silicon nitride product candidates may achieve better long-term clinical outcomes with enhanced durability, longevity, biocompatibility and patient fit. While we have not received regulatory clearance or approval for any of our product candidates that we intend to commercialize, in the second half of 2007 we expect to submit a premarket notification to the U.S. Food and Drug Administration, or the FDA, seeking regulatory clearance of our first commercial product candidate. Our goal is to establish our silicon nitride implants as new standards of care for the largest and fastest growing orthopedic implant markets: the spine, hip and knee markets.

Our lead product candidates are our *Valeo*[™] family of spinal implants, which are intended to restore and maintain the alignment of vertebrae in the cervical, or neck, region and lumbar, or lower back, region of the spine. We expect to launch the first of these products by mid-2008, subject to clearance by the FDA. In 2006, we received clearance from the FDA for a silicon nitride ceramic spinal spacer, a device for insertion between two vertebrae to help stabilize the spine. We believe this is the first ceramic spinal spacer ever cleared by the FDA for human use. Although we do not plan to commercialize this spinal spacer, it will be the predicate device for our *Valeo* spinal spacers. We plan to introduce additional spinal spacers by the end of 2008, subject to regulatory clearance, including cortico-cancellous spacers that feature a bone-like structure with a solid, or cortical, load-bearing portion and a cancellous, or porous, structure that is intended to promote bone attachment for spinal fixation. In mid-2009, subject to regulatory approval, we plan to introduce cortico-cancellous spinal spacers with a surface coating designed to enhance bone attachment. Our *Valeo* family of spinal implant candidates also includes an all-ceramic, motion-preserving cervical disc, for which we anticipate commencing a clinical trial by mid-2009.

In addition, we are incorporating our silicon nitride ceramic technology into the development of our *Infinia*[™] family of total hip and knee implants. We anticipate performing clinical trials for each of our *Infinia* product candidates. We believe that our *Infinia Total Hip and Knee Implants*, if approved or cleared by the FDA, may provide competitive advantages over currently marketed total hip and knee replacement implants. We are designing our *Infinia Total Hip Implant* to offer surgeons a range of sizes and design options comparable to implants with metal and plastic components but with improved wear resistance. We anticipate commencing a clinical trial for the first of these total hip implant candidates in 2009. We also are designing our *Infinia Total Knee Implant* and anticipate commencing a clinical trial for this product candidate in 2010. We believe that its

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design will provide natural anatomic motion and offer lower wear and improved longevity compared to currently marketed knee replacement implants.

During the past two years, we have been designing and constructing our own manufacturing facility and developing processes that will provide us the ability to control the commercial-scale production of our silicon nitride ceramic implants from powder form to devices ready for sterilization and packaging. We are currently producing our lead ceramic spinal product candidates on a pilot scale in our manufacturing facility. We anticipate our facility will be fully operational for commercial-scale production by the end of 2007, which we believe would make us the only vertically integrated silicon nitride orthopedic implant manufacturer in the world.

Our Market Opportunity

According to the Millennium Research Group, approximately 1.5 million patients undergo spine, hip and knee surgery involving the use of implants each year in the United States, and this number is expected to grow primarily due to the rising incidence of arthritis. In 2005, an estimated 46 million U.S. adults suffered from doctor-diagnosed arthritis, and nearly two-thirds of those afflicted were younger than age 65. Osteo-arthritis, a condition involving the degeneration, or wearing away, of the cartilage at the end of bones, is a common form of arthritis, and often results in progressive joint disease and pain. The prescribed treatment for osteo-arthritis disorders depends on the severity and duration of the disorder and ranges from non-operative procedures including bed rest, medication, lifestyle modifications, exercise, physical therapy, chiropractic care and steroid injections, to surgical intervention including total joint replacement. In cases where surgical intervention is prescribed, the use of implants has evolved into the standard of care in spine, hip and knee surgery.

The spine market is the fastest growing market for orthopedic implants, accounting for \$3.3 billion in sales in the United States in 2006, and is projected to grow at an average annual rate of 12.0% through 2011 to approximately \$5.9 billion. Spinal fixation surgeries currently represent the vast majority of procedures in this market. Approximately 500,000 spinal fixation surgery procedures were performed in the United States in 2006, accounting for approximately \$3.2 billion of the total \$3.3 billion in U.S. spine implant market.

Orthopedic implants used in hip and knee replacement surgeries generated approximately \$5.6 billion in sales in 2006 in the United States, and such sales are projected to increase at an average annual rate of 9.4% through 2011 to approximately \$8.8 billion. Approximately one million primary hip and knee replacement procedures were performed in the United States in 2006.

We believe that the market for implants used in spine, hip and knee surgical procedures will continue to grow because of the following market dynamics:

- growth of the aging population;
- changing lifestyle expectations;
- earlier surgical intervention;
- rising number of revision surgeries;
- introduction of new technologies; and
- market expansion into new geographic areas.

Our Solution

We believe our silicon nitride ceramic technologies, MC^2 and $C^S C$, will overcome many of the limitations associated with currently available implant materials by providing an improved combination of characteristics, including:

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- greater strength and resistance to fracture than currently marketed ceramic implants;
- improved resistance to wear compared to implants made of plastics and metals;
- greater ability to promote bone attachment than traditional plastic and metal implants such as polyetheretherketone, or PEEK, and titanium; and
- better compatibility with surgical and diagnostic imaging techniques.

We believe that the anticipated greater strength and fracture resistance of our silicon nitride implant candidates will allow us to offer a wider range of design and size options and lower risk of fracture compared to currently marketed implants made of ceramic materials. We further believe that the anticipated improved wear resistance and biocompatibility over the life of our silicon nitride product candidates will reduce the risk of bone loss and allergic response to metal wear particles. Based on these potential advantages, we believe that our silicon nitride product candidates will achieve better long-term clinical outcomes with a combination of improved durability, longevity, biocompatibility and patient fit. Our ceramic product categories include:

- *Micro-Composite Ceramic, or MC²*. We refer to our formulation of silicon nitride as MC², or Micro-Composite Ceramic. We expect that all of our ceramic product candidates will be made using our MC² silicon nitride.
- *Cortico-cancellous Structured Ceramics, or C^{SC}*. We also are developing silicon nitride ceramic implants that mimic the structure of natural bone by incorporating both a dense load-bearing component and a porous component, coupled with a surface coating, intended to promote bone attachment. We call our ceramic implants based on this technology C^{SC}, or Cortico-cancellous Structured Ceramic, implants.

Our Strategy

Our goal is to become a leading orthopedic company offering advanced silicon nitride ceramic implants for a broad range of orthopedic indications. We intend to use our ceramic technologies to develop implants that have performance advantages compared to existing implants. We believe that the combined benefits of our MC² and C^{SC} technologies will give our product candidates the potential to become a new standard of care for spine, hip and knee procedures.

Key elements of our strategy to achieve this objective include the following:

- launch near-term product candidates that address substantial market opportunities and build market awareness;
- build a broad portfolio of ceramic implants targeting expanded indications and additional surgical procedures;
- utilize the expertise of our surgeon advisors to design physician-preferred product features;
- establish a hybrid sales organization utilizing experienced, independent sales agencies and a direct sales force; and
- selectively establish collaborations for our implants with leading orthopedic companies.

Our Product Candidates

We are using our MC² and C^{SC} ceramic technologies to develop and commercialize innovative orthopedic implant products for the spine, hip and knee implant markets.

Our Spinal Implant Products

We have designed our lead product candidates in our *Valeo* family of spinal implants as a comprehensive solution for surgical procedures for spinal fixation. These products, if cleared or approved by the FDA, include

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spinal spacers, a cervical bone plate system, a pedicle screw system, and a set of surgical instruments that facilitate the placement of our implants in the body. We are also developing an all-ceramic motion-preserving cervical disc.

Valeo Cortical and C^SC Spinal Spacers. We have designed our *Valeo* family of spinal spacers, using silicon nitride ceramic, as intervertebral fixation implants for stabilizing the spine that replace a portion of a vertebra that has collapsed, been damaged, or becomes unstable due to disease or trauma. We believe that each of our *Valeo Spinal Spacers* will have competitive advantages compared to existing spinal implants. We developed and received FDA clearance for our *ArxTM* Intervertebral Spacers made from *MC²* silicon nitride, which will serve as the predicate device for the 510(k) premarket notification for our *Valeo Cortical Spinal Spacers* product candidate.

Valeo Cervical Plate System and Pedicle Screw System. We are developing our *Valeo Cervical Plate System* and *Valeo Pedicle Screw System* as titanium alloy supplemental fixation implants to be used in conjunction with our *Valeo Spinal Spacers*. Our design and instruments combine special features to enable surgeons, in a single step, to hold the cervical plate in place, ensure proper angling and insertion of the screws into the vertebrae, and achieve a consistent supplemental fixation outcome. Our screw system incorporates modularity in the system components to permit such flexibility, which we believe will provide better clinical outcomes.

Valeo Cervical Disc. We are developing our *Valeo Cervical Disc*, using both our *MC²* and *C^SC* technologies, as a silicon nitride ceramic implant to meet the unmet market need for a disc replacement implant that will restore natural motion and provide uncompromised wear resistance and favorable imaging characteristics in the cervical spine. We believe our *Valeo Cervical Disc* will represent a significant advance over currently available disc implants.

Our Hip Implant Products

Infinia Total Hip Implant. We are developing our *Infinia Total Hip Implant* for patients undergoing total hip replacement surgery for the treatment of degenerative joint disease. In our first hip replacement implant, we will use silicon nitride ceramic for the femoral head component of this implant. The counter-bearing, or mating component, of the hip implant, will be a polyethylene liner, fixed into a metal acetabular cup, using industry-recognized designs and materials. We anticipate that our *Infinia Total Hip Implant*, if cleared by the FDA based on a 510(k) premarket notification supported by sufficient clinical trial results, will provide competitive advantages over traditional total hip replacement implants presently on the market.

Infinia Total Hip Implant II. We are developing our second generation *Infinia Total Hip Implant II* which, if approved by the FDA, will feature our *Infinia* monoblock cup, an industry-first, one-piece, fully ceramic acetabular cup, our large diameter *Infinia* ceramic and metal femoral heads, and our *Infinia* femoral stem. The *Infinia* monoblock cup will be made from silicon nitride ceramic and will incorporate a smooth bearing surface on the inside of the cup integrated with a bone attachment surface incorporating our *C^SC* technology on the outside of the cup that comes into contact with a patient's pelvis. The femoral head of the implant will be a large-diameter head offered in two versions, one made of silicon nitride and the other of cobalt-chromium metal alloy. The femoral head will be used with a metal stem inserted into the femur. In contrast to currently marketed ceramic femoral heads, we are designing our *MC²* femoral head to offer surgeons a range of size and design options comparable to those available in metal femoral heads.

Our Knee Implant Product

Infinia Total Knee Implant. Our *Infinia Total Knee Implant* will incorporate silicon nitride bearing components for the femoral condyle. The tibial tray will be made from traditional metal. The tibial insert will be made from polyethylene in a rotating platform design intended to give the knee implant a range of motion and

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flexion similar to the natural knee. We anticipate that this total knee replacement product candidate, if approved by the FDA, will provide natural anatomic motion and will offer a low-wear knee replacement option, providing significantly improved longevity compared with current metal-on-polyethylene knee implants.

Risks Associated with Our Business

Our business is subject to a number of risks that you should be aware of before making an investment decision. These risks are discussed more fully in the section of this prospectus entitled “Risk Factors.” We have not received regulatory clearance or approval to commercialize our *Valeo* or *Infinia* product candidates for any intended use. If we are unable to successfully develop, receive regulatory clearance or approval for and commercialize our implant products, we may never generate revenue or be profitable and may have to cease operations. We have a limited operating history and no products in commercial distribution. To date, our only significant revenue has been from research grants from the National Institutes of Health and with the exception of a small net income for the years ended December 31, 2002 and 1999, we have incurred net losses in each year since our inception. Our ability to expand the use of our ceramic technologies may be limited by a number of factors, including intellectual property held by other parties. Our competitors and potential competitors include much larger companies with more resources and commercialization experience than we have. We have generated no revenues from operations, and as of March 31, 2007, we had an accumulated deficit during the development stage of \$18.2 million. We expect to continue to incur additional, and possibly increasing, losses through at least the end of 2010.

Corporate Information

We were incorporated in Delaware in 1996 under the name Amedica Corp. and have since changed our name to Amedica Corporation. Our principal executive offices are located at 615 Arapeen Drive, Suite 302, Salt Lake City, Utah 84108, and our telephone number is (801) 583-5100. Our web site address is www.amedicacorp.com. The information on, or that may be accessed through, our web site is not incorporated by reference into this prospectus and should not be considered a part of this prospectus. As used in this prospectus, references to “we,” “our,” “us” and “Amedica” refer to Amedica Corporation unless the context requires otherwise.

Certain monetary amounts, percentages and other figures included in this prospectus have been subject to rounding adjustments. Accordingly, figures shown as totals in certain tables may not be the arithmetic aggregation of the figures that precede them, and figures expressed as percentages in the text may not total 100% or, as applicable, when aggregated may not be the arithmetic aggregation of the percentages that precede them.

We have applied for federal registration of the marks “Altia”, “AMCA”, “Amedica”, “C^{SC}”, “Improving Function. Enhancing Lives.”, “Infinia”, “Infinite Possibility”, “MC²”, and “Valeo”. All other trademarks, trade names and service marks appearing in this prospectus are the property of their respective owners.

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THE OFFERING

Common stock offered by us	shares
Common stock to be outstanding after this offering	shares
Over-allotment option	shares
Use of proceeds	We intend to use the net proceeds from this offering to fund the development and commercialization of our lead products, build our sales, marketing and distribution capabilities, establish commercial-scale manufacturing operations, fund research and development activities for our pipeline products and for other general corporate purposes. See “Use of Proceeds.”
Proposed NASDAQ Global Market symbol	AMCA

The information above is based on 8,678,995 shares of common stock outstanding as of May 1, 2007, and assumes the conversion of all of our preferred stock outstanding as of May 1, 2007, into 31,856,558 shares of common stock upon the completion of this offering. It does not include:

- 3,457,627 shares of common stock issuable upon the exercise of outstanding options to purchase common stock, at a weighted average exercise price of \$0.40 per share;
- 4,057,040 shares of common stock issuable upon the exercise of warrants for shares of Series A, Series B, Series C and Series D convertible preferred stock, on an as-converted basis, outstanding as of May 1, 2007, at a weighted average exercise price of \$1.36 per share;
- 857,163 additional shares of common stock reserved for issuance under our 2003 Stock Option Plan; and
- additional shares of common stock reserved for issuance under our 2007 Stock Plan.

Unless otherwise indicated, all information contained in this prospectus:

- assumes that the underwriters do not exercise their over-allotment option;
- reflects a one-for- reverse split of our common stock to be effected immediately prior to the completion of this offering;
- reflects the automatic conversion of all of our outstanding shares of preferred stock into 31,856,558 shares of common stock upon completion of this offering; and
- assumes the adoption of our amended and restated certificate of incorporation and amended and restated bylaws upon the completion of this offering.

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SUMMARY FINANCIAL DATA

The summary financial data set forth below should be read in conjunction with our financial statements and the related notes and “Management’s Discussion and Analysis of Financial Condition and Results of Operations” included elsewhere in this prospectus.

	Years Ended December 31,					Three Months Ended March 31,		Period from December 10, 1996 (inception) through March 31, 2007
	2002	2003	2004	2005	2006	2006 (unaudited)	2007 (unaudited)	(unaudited)
Statement of Operations Data:								
Grant revenue	\$ 304,333	\$ 299,583	\$ 208,252	\$ 69,207	\$ 94,850	\$ —	\$ —	\$ 1,234,476
Operating expenses:								
Research and development	207,298	380,771	1,419,293	2,966,991	4,974,380	1,100,125	1,479,340	11,802,694
General and administrative	67,551	142,377	398,208	576,295	1,113,500	184,425	405,380	2,806,322
Sales and marketing	—	—	—	416,847	607,538	111,038	125,740	1,150,125
Total operating expenses	<u>274,849</u>	<u>523,148</u>	<u>1,817,501</u>	<u>3,960,133</u>	<u>6,695,418</u>	<u>1,395,588</u>	<u>2,010,460</u>	<u>15,759,141</u>
Income (loss) from operations	29,484	(223,565)	(1,609,249)	(3,890,926)	(6,600,568)	(1,395,588)	(2,010,460)	(14,524,665)
Interest income (expense), net	(16,705)	(6,863)	107,211	248,838	727,939	150,487	129,148	1,153,775
Change in value of preferred stock warrants	—	—	(254,089)	(577,000)	(290,925)	(72,731)	(3,681,413)	(4,803,427)
Net income (loss)	<u>\$ 12,779</u>	<u>\$ (230,428)</u>	<u>\$ (1,756,127)</u>	<u>\$ (4,219,088)</u>	<u>\$ (6,163,554)</u>	<u>\$ (1,317,832)</u>	<u>\$ (5,562,725)</u>	<u>\$ (18,174,317)</u>
Basic and diluted loss per share	<u>\$ 0.00</u>	<u>\$ (0.03)</u>	<u>\$ (0.20)</u>	<u>\$ (0.49)</u>	<u>\$ (0.71)</u>	<u>\$ (0.15)</u>	<u>\$ (0.64)</u>	
Weighted average number of shares outstanding—basic and diluted	<u>8,000,000</u>	<u>8,110,933</u>	<u>8,585,873</u>	<u>8,612,014</u>	<u>8,661,713</u>	<u>8,655,595</u>	<u>8,678,995</u>	

	As of March 31, 2007 (unaudited)	
	Actual	Pro Forma ⁽¹⁾ as Adjusted ⁽¹⁾⁽²⁾
Balance Sheet Data:		
Cash, cash equivalents and marketable securities	\$ 10,325,322	\$ 22,725,322
Working capital	9,541,106	21,941,106
Total assets	17,207,969	29,607,969
Long-term debt, including current portion	1,556,241	1,556,241
Convertible preferred stock	26,389,982	—
Total stockholders’ equity (deficit)	(17,559,966)	27,534,979

- (1) The pro forma balance sheet data above reflect our unaudited capitalization as of March 31, 2007, on a pro forma basis giving effect to (i) the issuance of 4,456,500 shares of our Series D convertible preferred stock in April 2007 for net proceeds of approximately \$12.4 million, (ii) the automatic conversion of all outstanding shares of our convertible preferred stock, including our Series D convertible preferred stock into an aggregate of 31,856,558 shares of our common stock upon the completion of this offering, and (iii) the conversion of warrants to purchase 4,057,040 shares of our convertible preferred stock into warrants to purchase an equal number of shares of our common stock (but not assuming the exercise of these common stock warrants), including warrants to purchase a total of 253,290 shares of Series D convertible preferred stock issued in April 2007 and the related reclassification of the preferred stock warrant liability to additional paid in capital.
- (2) The pro forma as adjusted balance sheet data above reflect the issuance of _____ shares of common stock upon the completion of this offering at an assumed initial public offering price of \$ _____ per share, the midpoint of the range on the front cover of this prospectus.

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The common share information above does not include:

- 3,457,627 shares of common stock issuable upon the exercise of options to purchase common stock, at a weighted average exercise price of \$0.40 per share outstanding as of March 31, 2007;
- 4,057,040 shares of common stock issuable upon the exercise of warrants for shares of Series A, Series B, Series C and Series D convertible preferred stock, on an as-converted basis, outstanding as of May 1, 2007, at a weighted average exercise price of \$1.36 per share; and
- 857,163 additional shares of common stock reserved for issuance under our 2003 Stock Option Plan.

RISK FACTORS

An investment in our common stock involves a high degree of risk. You should carefully read and consider the risks described below, as well as the other information in this prospectus, including our financial statements and the related notes, before deciding to invest in our common stock. If any of the following risks occur, our business, financial condition, results of operations or cash flows could be materially harmed. In that case, the trading price of our common stock could decline, and you could lose all or part of your investment.

Risks Related to Our Business and Strategy

We are an early stage company with no product revenues, and if we fail to execute effectively on all elements of our business plan, we may not succeed in our goal of becoming a profitable orthopedic implants company.

We have not yet commercialized any of our product candidates. We have four spinal implant product candidates that we intend to introduce to market in the United States in 2008, and one spinal spacer candidate we plan to introduce in mid-2009, by seeking 510(k) regulatory clearance for each of them from the FDA. We refer to these implants as our lead product candidates due to the regulatory pathway we intend to pursue and because we plan to introduce each of them to market within the next two years. We refer to implants as our pipeline product candidates if we expect to conduct clinical trials in support of regulatory clearance or approval from the FDA and, therefore, we plan to introduce these product candidates to market in the United States over a longer term. We do not expect to start clinical trials of the earliest of our pipeline product candidates before the first half of 2009. There is no assurance that we will succeed in bringing any of our product candidates to market. In order to succeed in our commercialization efforts, we must execute effectively on all elements of our business plan, including product development and testing, obtaining regulatory clearances and approvals, establishing our sales and marketing capabilities, and developing certified, validated and effective commercial-scale manufacturing operations. If we fail in any of these endeavors, or experience delays in pursuing them, we will not generate revenues as planned and will need to curtail operations or seek additional financing earlier than otherwise anticipated.

Our near-term success depends substantially on our ability to obtain regulatory clearance or approval and thereafter commercialize our most advanced spinal implant product candidates; we cannot be certain that we will be able to do so in a timely fashion or at all.

The process of obtaining regulatory clearances or approvals to market a medical device from the U.S. Food and Drug Administration, or the FDA, or similar regulatory authorities outside of the United States can be costly and time consuming, and there can be no assurance that such clearances or approvals will be granted on a timely basis, or at all. The FDA's 510(k) clearance process generally takes one to six months from submission, depending on whether a Special or traditional 510(k) premarket notification has been submitted, but can take significantly longer. An application for premarket approval, or PMA, must be submitted to the FDA if the device cannot be cleared through the 510(k) clearance process or is not exempt from premarket review by the FDA. The PMA process almost always requires one or more clinical trials and can take two to three years from the date of filing, or even longer. In some cases, including in the case of our *Infinia Total Hip Implant*, the FDA has indicated that it will require clinical data as part of the 510(k) process.

Our regulatory strategy is to try to accelerate market introduction of our most advanced product candidates by submitting either a traditional or a Special 510(k). We currently intend to seek Special 510(k) clearance for certain of our lead spinal implant products under development. We expect to submit a 510(k) for our *Infinia Total Hip Implant*, which will include our ceramic femoral head, and we anticipate that the FDA will require clinical trials in support of this 510(k) as well as for our applications through the PMA process for the rest of our pipeline product candidates.

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There is no certainty, however, that any of our lead product candidates, particularly those incorporating silicon nitride ceramic materials, will be cleared by the FDA by means of either a traditional or a Special 510(k). In correspondence relating to a 510(k) we submitted for spinal product candidates we previously were developing using zirconia-toughened alumina, the FDA raised a number of questions regarding the strength of the zirconia-toughened alumina ceramic under biological conditions, the binding of hydroxy-apatite to the ceramic, the ability of the devices to facilitate adequate bone attachment and the implications of potential wear debris generated during implantation of the devices. These issues could be raised with respect to our current silicon nitride spinal product candidates, and could result in our having to perform additional studies. While we believe that our current product candidates incorporating silicon nitride ceramic materials differ significantly from our previous product candidates employing zirconia-toughened alumina, we cannot assure you that the FDA will not raise similar questions regarding our current spinal product candidates. If the FDA takes a similar position regarding our product candidates incorporating silicon nitride ceramic materials, our ability to bring our lead products to market could be delayed and we can give no assurance that we would ultimately receive marketing approval.

Even if the FDA permits us to use the 510(k) clearance process, we cannot assure you that the FDA will not require either supporting data from laboratory tests or studies that we have not conducted, or substantial supporting clinical data. If we are unable to use the 510(k) clearance process for any of our lead product candidates, are required to provide clinical data or laboratory data that we do not possess to support our 510(k) premarket notifications for any of these product candidates, or otherwise experience delays in obtaining or fail to obtain regulatory clearances, the commercialization of our most advanced product candidates will be delayed or prevented, which will adversely affect our ability to generate revenues. It also may result in the loss of potential competitive advantages that we might otherwise attain by bringing our products to market earlier than our competitors. Any of these contingencies could adversely affect our business.

Even if we succeed in obtaining FDA clearance or approvals for our lead product candidates and pipeline product candidates within the time frames we anticipate, our products may not be commercially successful.

Even if we receive regulatory clearances or approvals for our lead product candidates and pipeline product candidates, our product candidates may not gain market acceptance among orthopedic surgeons and the medical community. Orthopedic surgeons may elect not to use our products for a variety of reasons, including:

- lower than expected clinical benefits in comparison with other implant products;
- surgeons' perception that there are insufficient advantages of our implants relative to currently available implant products;
- lack of coverage or adequate payment from managed care plans and other third-party payors for the procedures that use our products;
- ineffective marketing and distribution support;
- inadequate training of surgeons in the proper use of our products;
- the development of alternative implant materials and products that render our products less competitive or obsolete; and
- timing of the introduction of competitive products to market.

If orthopedic surgeons do not perceive our implant products as attractive alternatives to existing products, we will not be able to generate significant revenues, if any.

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The orthopedic implant market is highly competitive and we may not be able to compete effectively against the larger, well-established companies that dominate this market or emerging and small innovative companies that may seek to obtain or increase their share of the market.

The markets for spine, hip and knee implant products are intensely competitive, and many of our competitors are much larger and have substantially more financial and human resources than we do. Many have long histories and strong reputations within the industry, and a relatively small number of companies dominate these markets. For example, in 2006, Medtronic Spinal and Biologics, a subsidiary of Medtronic, Inc.; Synthes, Inc.; DePuy Spine, Inc., a subsidiary of Johnson & Johnson; Stryker Spine, a division of Stryker Corporation; Biomet Spine and Biomet Trauma, a subsidiary of Biomet, Inc.; and Zimmer Spine, a subsidiary of Zimmer Holdings, Inc., accounted for over 80% of spine implant sales worldwide. In the hip and knee implant market, Zimmer Holdings, Inc.; DePuy Orthopaedics, Inc., a subsidiary of Johnson & Johnson; Stryker Orthopaedics, a division of Stryker Corporation; Biomet, Inc.; and Smith & Nephew Orthopaedics, a subsidiary of Smith & Nephew plc, accounted for over 80% of sales worldwide.

These companies enjoy significant competitive advantages over us, including:

- broad implant product offerings, which address the needs of orthopedic surgeons and hospitals in a wide range of implant procedures;
- greater experience in, and resources for, launching, marketing, distributing and selling products, including strong sales forces and established distribution networks;
- existing relationships with spine and joint reconstruction surgeons;
- more extensive intellectual property portfolios and resources for patent protection;
- greater financial and other resources for product research and development;
- greater experience in obtaining and maintaining FDA and other regulatory clearances or approvals for products and product enhancements;
- established manufacturing operations and contract manufacturing relationships;
- significantly greater name recognition and more recognizable trademarks; and
- established relationships with healthcare providers and payors.

Even if we successfully introduce implant products to market based on our ceramic materials, we may not succeed in overcoming the competitive advantages of these large and dominant orthopedic implant companies. In addition, emerging and small innovative companies may seek to increase their market share and they may later possess competitive advantages, which could also impact our business even if we successfully introduce implant products based on our ceramic materials. Moreover, many other companies are seeking to develop ceramic-based implant products, and these companies may introduce products which compete effectively against our products in terms of performance, price or both.

If we are unable to establish a sales and marketing infrastructure and enter into suitable arrangements with independent sales agencies, we will not be able to commercialize our product candidates.

Upon FDA clearance, we intend to market and sell our lead spinal products in the United States using a hybrid distribution network that includes a combination of experienced, independent sales agents with strong, existing surgeon relationships and a direct sales force in selected markets. A similar hybrid sales force will also be used to market our hip and knee reconstructive products. We have not yet established an internal sales organization, and we will need to recruit and train sales and marketing personnel in time for the launch of our most advanced product candidates, as well as expand our marketing capabilities as we grow our business. The establishment of our sales force will be expensive and time consuming, and we cannot assure you that we will be able to recruit and train a sufficient number of experienced and effective sales personnel on a timely basis.

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In addition, we cannot assure you that we will succeed in entering into productive arrangements with an adequate number of sales agencies that are sufficiently dedicated to selling our products. The establishment of a network of sales agencies is expensive and time consuming. Furthermore, many potential sales agencies will market and sell the products of our competitors. Even if these sales agencies agree to market and sell our products, our competitors may be able, by offering higher commission payments or other incentives, to persuade these sales agencies to reduce or terminate their sales and marketing efforts of our products. Even if we enter into agreements with independent sales agencies, they may not generate revenue as quickly as we expect them to, commit the necessary resources to effectively market and sell our products, or ultimately succeed in selling our products. If we are not successful in building an effective external sales and marketing network to complement our internal sales force, we will have difficulty commercializing our product candidates, which would adversely affect our business and financial condition.

We are in the process of establishing our own certified manufacturing facility and validating of our manufacturing processes to produce our silicon nitride-based implant products, and we may not be successful in developing the necessary commercial-scale manufacturing processes, facilities and capabilities.

Prior to March 2006, we utilized an internal pilot manufacturing facility to produce prototypes of some of our ceramic product candidates, and we used third parties to produce components of some of our other ceramic product candidates, such as silicon nitride ball blanks for femoral heads. We are currently in the process of developing internal manufacturing operations, and we will need to continue our efforts to develop scaled-up processes, equip our facility and recruit and train manufacturing personnel before the commercial launch of our lead implant products. We anticipate our facility becoming fully operational for commercial-scale production by the end of 2007. Although we have received an International Standards Organization, or ISO, certification for our facility from the British Standards Institution, our facilities are yet to be inspected by the FDA. In addition to developing and working to scale-up a process for the manufacture of our silicon nitride ceramic products, we are also currently verifying a manufacturing process for our implant products that incorporate features of our C^SC technology. We cannot assure you that we will be able to establish commercial-scale production of our products using cost-effective, reliable processes in facilities that meet applicable regulatory requirements. If we are unable to manufacture our products with consistent and satisfactory quality, at competitive costs, and sufficient quantities to meet demand, any of these circumstances may cause us to delay the introduction of our products or, once our products are introduced, may cause hospitals and surgeons to refrain from placing orders for them.

If we fail to comply with the FDA's quality system regulation, the manufacture of our products could be delayed or interrupted and our products may be subject to product recalls.

We will be required to comply with the FDA's quality system regulation, or QSR, which covers, among other things, the methods and documentation of the design, testing, production, control, quality assurance, labeling, packaging, sterilization, storage and shipping of our products. The FDA monitors compliance with the QSR through inspections of manufacturing facilities. If we are determined not to be in compliance or if any corrective action plan is not sufficient, we could be prevented or forced to delay the manufacture of our products, which could have a material adverse effect on our business, financial condition and results of operations. Moreover, after we have introduced products, any failure to maintain QSR compliance could force us to cease the manufacture of our products and subject us to other enforcement sanctions, including withdrawal of our products from the market, and delay or interrupt the manufacture of additional products.

We are in the process of developing a cost-effective process for the manufacture of our products based on our C^SC technology, and if we are unable to implement such a process on a timely basis, we will experience delays in the introduction of our implant products that incorporate our C^SC technology.

We are in the process of implementing an exclusively licensed process for the manufacture of our product candidates that will incorporate our C^SC technology. We cannot assure you that we will succeed in our process

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implementation efforts for the manufacture of our product candidates that will incorporate our $C^S C$ technology. Delays in achieving a cost-effective and reliable process for commercial-scale production of implant products that incorporate our $C^S C$ technology could impede the introduction of those product candidates and would adversely affect our business.

We depend on a limited number of third-party suppliers for key raw materials used in our manufacturing processes, and the loss of these third-party suppliers or their inability to supply us with adequate raw materials could harm our business.

We rely on a limited number of third-party suppliers for the raw materials required for the production of our implant products that will be made using silicon nitride, and we currently are developing arrangements with secondary sources for these raw materials. Our dependence on a limited number of third-party suppliers and the challenges we may face in obtaining adequate supplies of raw materials involve several risks, including limited control over pricing, availability, quality, and delivery schedules. We cannot be certain that our current suppliers will continue to provide us with the quantities of these raw materials that we require or satisfy our anticipated specifications and quality requirements. Any supply interruption in limited or sole sourced raw materials could materially harm our ability to manufacture our products until a new source of supply, if any, could be identified and qualified. Although we believe there are other suppliers of these raw materials, we may be unable to find a sufficient alternative supply channel in a reasonable time or on commercially reasonable terms. Any performance failure on the part of our suppliers could delay the development and commercialization of our implant products, including limiting supplies necessary for clinical trials and regulatory approvals, or interrupt production of then existing products that are already marketed, which would have a material adverse effect on our business.

If hospitals and other healthcare providers are unable to obtain coverage and adequate payments for procedures performed with our products, it is unlikely our products will be widely used.

Successful sales of our products will depend on the availability of coverage and adequate payments from third-party payors, including government programs such as Medicare and Medicaid, private insurance plans and managed care programs for procedures utilizing our future products. Hospitals and other healthcare providers that purchase orthopedic implant products for treatment of their patients generally rely on third-party payors to pay for all or part of the costs and fees associated with the procedures performed with or utilizing these devices. The existence of coverage and adequate payments for our products and the procedures performed with them by government and private insurance plans are central to acceptance of our lead and pipeline products. Many private payors currently base their reimbursement policies on the coverage decisions and payment amounts determined by the Centers for Medicare and Medicaid Services, or CMS, which administers the Medicare program. Others may adopt different coverage or payment policies for procedures performed with our products, while some governmental programs, such as Medicaid, have reimbursement policies that vary from state to state, some of which may not pay for the procedures performed with our products in an adequate amount, if at all. Our success may also be impacted by future action by CMS or other government agencies aimed at limiting payments to physicians, outpatient centers and hospitals. Additionally, as the portion of the U.S. population eligible for Medicare continues to grow, we will be more vulnerable to reimbursement limitations imposed by Medicare. For example, in 2006 CMS issued a national coverage decision denying Medicare coverage for DePuy's CHARITE™ prosthetic intervertebral disc implant for patients over 60 years old. Also, the healthcare industry in the United States has experienced a trend toward cost containment as government and private insurers seek to control healthcare costs by paying service providers lower rates. Therefore, we cannot be certain that our products or the procedures performed with them will be covered or adequately reimbursed and thus we may be unable to sell our products profitably if third-party payors deny coverage or reduce their levels of payment below that which we project, or if our production costs increase at a greater rate than payment levels.

In addition, future reimbursement may be subject to international regulatory approval requirements and increased restrictions in international markets. Medical device regulatory requirements and healthcare payment

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systems vary significantly from country to country, and each country's health care system may include both government sponsored healthcare and private insurance. Many countries have also instituted price ceilings on specific product lines. Any failure to receive regulatory and reimbursement approvals would negatively impact market acceptance of our products in any other international markets in which those approvals are sought.

We are dependent on our senior management team, engineering team, sales and marketing team and key surgeon advisors, and the loss of any of them could harm our business.

We have not entered into employment agreements with any of the members of our senior management team, and, therefore, there are no assurances that the services of any of these individuals will be available to us for any specified period of time. The loss of members of our senior management team, sales and marketing team, engineering team and key surgeon advisors, or our inability to attract or retain other qualified personnel or advisors could have a material adverse effect on our business, financial condition and results of operations.

Risks Related to Regulatory Approval of Our Products and Other Government Regulations

The safety of our products is not yet supported by any long-term clinical data, and they may prove to be less safe and effective than our laboratory data indicate.

We intend to seek clearance or approval for each of our lead and pipeline product candidates through the FDA's 510(k) or PMA process depending on the product candidate. The 510(k) clearance process is based on the FDA's agreement that a new product candidate is substantially equivalent to an already marketed product for which a PMA was not required and requires little or no additional supporting clinical data. Long-term clinical data or marketing experience obtained after clearance may indicate that our products cause unexpected complications or other unforeseen negative effects. If this happens, we could be subject to the withdrawal of our marketing clearance and other enforcement sanctions by the FDA, product recalls, significant legal liability, significant negative publicity, damage to our reputation and a dramatic reduction in our ability to sell our products, any one of which would have a material adverse effect on our business, financial condition and results of operations.

We expect to be required to conduct clinical trials for our pipeline product candidates. We have no experience conducting clinical trials, they may proceed more slowly than anticipated, and we cannot be certain that our products will be shown to be safe and effective for human use.

In order to commercialize our pipeline product candidates, we must submit a PMA for most of these product candidates, which will require us to conduct clinical trials. Even though we plan to seek FDA clearance of our pipeline *Infinia Total Hip Implant* product through the 501(k) process, the FDA has indicated that it expects us to conduct a clinical trial in support of our 510(k). We will receive approval from the FDA to commercialize pipeline products requiring a clinical trial only if we can demonstrate to the satisfaction of the FDA, in well-designed and properly conducted clinical trials, that our product candidates are safe and effective and otherwise meet the appropriate standards required for approval for specified indications. Clinical trials are complex, expensive, time consuming, uncertain and subject to substantial and unanticipated delays. Before we may begin clinical trials, we must submit and obtain approval for an investigational device exemption, or IDE, that describes, among other things, the manufacture of, and controls for, the device and a complete investigational plan. Clinical trials generally involve a substantial number of patients in a multi-year study. We may encounter problems with our clinical trials and any of those problems could cause us or the FDA to suspend those trials, or delay the analysis of the data derived from them.

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A number of events or factors, including any of the following, could delay the completion of our clinical trials in the future and negatively impact our ability to obtain FDA approval for, and to introduce a particular pipeline product candidate:

- failure to obtain approval from the FDA or any foreign regulatory authority to commence an investigational study;
- conditions imposed on us by the FDA or any foreign regulatory authority regarding the scope or design of our clinical trials;
- delays in obtaining or in our maintaining required approvals from institutional review boards or other reviewing entities at clinical sites selected for participation in our clinical trials;
- insufficient supply of our pipeline product candidates or other materials necessary to conduct our clinical trials;
- difficulties in enrolling patients in our clinical trials;
- negative or inconclusive results from clinical trials, or results that are inconsistent with earlier results, that necessitate additional clinical studies;
- serious or unexpected side effects experienced by patients in whom our pipeline product candidates are implanted; or
- failure by any of our third-party contractors or investigators to comply with regulatory requirements or meet other contractual obligations in a timely manner.

Our clinical trials may not begin as planned, may need to be redesigned, and may not be completed on schedule, if at all. Delays in our clinical trials may result in increased development costs for our product candidates, which could cause our stock price to decline and limit our ability to obtain additional financing. In addition, if one or more of our clinical trials are delayed, competitors may be able to bring products to market before we do, and the commercial viability of our product candidates could be significantly reduced.

Once our products are commercialized, we and our independent sales agents must comply with various federal and state anti-kickback, self-referral, false claims and similar laws, any breach of which could cause a material adverse effect on our business, financial condition and results of operations.

Once our products are commercialized, our relationships with surgeons, hospitals and the marketers of our products will become subject to scrutiny under various federal anti-kickback, self-referral, false claims and similar laws, often referred to collectively as healthcare fraud and abuse laws. Healthcare fraud and abuse laws are complex, and even minor, inadvertent violations can give rise to claims that the relevant law has been violated. Possible sanctions for violation of these fraud and abuse laws include monetary fines, civil and criminal penalties, exclusion from federal and state healthcare programs, including Medicare, Medicaid, Veterans Administration health programs, workers' compensation programs and TRICARE (the healthcare system administered by or on behalf of the U.S. Department of Defense for uniformed services beneficiaries, including active duty and their dependents, retirees and their dependents), and forfeiture of amounts collected in violation of such prohibitions. Certain states in which we intend to market our products have similar fraud and abuse laws, imposing substantial penalties for violations. Any government investigation or a finding of a violation of these laws would likely result in a material adverse effect on the market price of our common stock, as well as our business, financial condition and results of operations.

Anti-kickback laws and regulations prohibit any knowing and willful offer, payment, solicitation or receipt of any form of remuneration in return for the referral of an individual or the ordering or recommending of the use of a product or service for which payment may be made by Medicare, Medicaid or other government-sponsored healthcare programs. We have entered into consulting agreements and product development agreements with

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surgeons, including some who may make referrals to us or order our products after our products are introduced to market. In addition, some of these surgeons own our stock, which they purchased in arms' length transactions on terms identical to those offered to non-surgeons, or received stock options from us as consideration for consulting services performed by them. Other surgeons may be offered shares as part of this offering under our directed share program as described in the "Underwriters" section of this prospectus. While these transactions were structured with the intention of complying with all applicable laws, including the federal ban on physician self-referrals, commonly known as the "Stark Law," state anti-referral laws and other applicable anti-kickback laws, it is possible that regulatory or enforcement agencies or courts may in the future view these transactions as prohibited arrangements that must be restructured or for which we would be subject to other significant civil or criminal penalties, or prohibit us from accepting referrals from these surgeons. Because our strategy relies on the involvement of surgeons who consult with us on the design of our product candidates, we could be materially impacted if regulatory or enforcement agencies or courts interpret our financial relationships with our surgeon advisors who refer or order our products to be in violation of applicable laws and determine that we would be unable to achieve compliance with such applicable laws. This could harm our reputation and the reputations of our surgeon advisors. In addition, the cost of non-compliance with these laws could be substantial since we could be subject to monetary fines and civil or criminal penalties, and we could also be excluded from federally-funded healthcare programs, including Medicare and Medicaid, for non-compliance.

The scope and enforcement of all of these laws is uncertain and subject to rapid change, especially in light of the lack of applicable precedent and regulations. There can be no assurance that federal or state regulatory or enforcement authorities will not investigate or challenge our current or future activities under these laws. Any investigation or challenge could have a material adverse effect on our business, financial condition and results of operations. Any state or federal regulatory or enforcement review of us, regardless of the outcome, would be costly and time consuming. Additionally, we cannot predict the impact of any changes in these laws, whether these changes are retroactive or will have effect on a going-forward basis only.

We face significant uncertainty in the industry due to government healthcare reform.

Political, economic and regulatory influences are subjecting the healthcare industry to fundamental changes. Reforms under consideration in the United States include mandated basic healthcare benefits, controls on healthcare spending, increases in insurance premiums and increased out-of-pocket requirements for patients, the creation of large group purchasing organizations that aim to reduce the costs of products that their member hospitals consume, and significant modifications to the healthcare delivery system. We anticipate that the U.S. Congress and state legislatures will continue to review and assess alternative healthcare delivery systems and payment methods. Due to uncertainties regarding the ultimate features of reform initiatives and the timing of their enactment and implementation, we cannot predict which, if any, of such reform proposals will be adopted, when they may be adopted or what impact reform initiatives may have on us.

Risks Related to Our Intellectual Property and Litigation

If the combination of patents, trade secrets and contractual provisions that we rely on to protect our intellectual property is inadequate, our ability to commercialize our orthopedic implants successfully will be harmed, and we may not be able to operate our business profitably.

Our success depends significantly on our ability to protect our proprietary rights to the technologies incorporated in our products. We currently have four issued U.S. patents, twelve pending U.S. patent applications, and ten pending foreign patent applications. We rely on a combination of patent protection, trade secret laws and nondisclosure, confidentiality and other contractual restrictions to protect our proprietary technology. However, these may not adequately protect our rights or permit us to gain or keep any competitive advantage.

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The issuance of a patent is not conclusive as to its scope, validity or enforceability. The scope, validity or enforceability of our issued patents can be challenged in litigation or proceedings before the U.S. Patent and Trademark Office, or the USPTO. In addition, our pending patent applications include claims to numerous important aspects of our products under development that are not currently protected by any of our issued patents. We cannot assure you that any of our pending patent applications will result in the issuance of patents to us. The USPTO may deny or require significant narrowing of claims in our pending patent applications. Patents issued as a result of the pending patent applications, if any, may not provide us with significant commercial protection or be issued in a form that is advantageous to us. Proceedings before the USPTO could result in adverse decisions as to the priority of our inventions and the narrowing or invalidation of claims in issued patents. The laws of some foreign countries may not protect our intellectual property rights to the same extent as the laws of the United States, if at all.

Our competitors may successfully challenge and invalidate or render unenforceable our issued patents, including any patents that may issue in the future, which could prevent or limit our ability to market our products and could limit our ability to stop competitors from marketing products that are substantially equivalent to ours. In addition, competitors may be able to design around our patents or develop products that provide outcomes that are comparable to our products but that are not covered by our patents.

We also rely on an exclusive license from Dytech Corporation Ltd., or Dytech, for rights under three patents relating to a manufacturing process that can be used to implement our *C⁵C* technology. Our exclusive license from Dytech will be in effect for as long as we continue to have payment obligations to Dytech under the license, unless the license is earlier terminated on account of a continuing material violation of the license agreement. In the event of an early termination, we would not be able to rely on Dytech's patents for the manufacturing process for the implementation of our *C⁵C* technology, and our ability to manufacture and commercialize our products incorporating this technology would be significantly impacted in an adverse manner.

Further, in the event that we are not able to commercialize a product or product candidate incorporating the licensed technology from Dytech within three years of the effective date of the agreement, or December 20, 2009 (or four years in the event clinical trials are required for FDA clearance, or December 20, 2010), Dytech will have the right, upon thirty days prior written notice to us, to convert the exclusive license into a non-exclusive license. In the event that our exclusive license is converted into a non-exclusive license, other competitors may be able to obtain licenses similar to ours that would substantially impair our ability to prevent competitors from commercializing products similar to ours.

We have also entered into confidentiality and assignment of intellectual property agreements with certain of our employees, consultants and advisors as one of the ways we seek to protect our intellectual property and other proprietary technology. However, these agreements may not be enforceable or may not provide meaningful protection for our trade secrets or other proprietary information in the event of unauthorized use or disclosure or other breaches of the agreements.

In the event a competitor infringes upon one of our patents, our licensed patents or other intellectual property rights, enforcing our rights may be difficult, time consuming and expensive, and would divert management's attention from managing our business. There can be no assurance that we will be successful on the merits in any enforcement effort. In addition, we may not have sufficient resources to litigate, enforce or defend our intellectual property rights.

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We have no patent protection covering the composition of our formulation of silicon nitride or the process we use for manufacturing silicon nitride, and competitors may create doped-silicon nitride implant products substantially similar to ours, which could significantly diminish the effect of any competitive advantages that we might otherwise have had.

The composition of silicon nitride formulated with dopants such as yttria and alumina is generally known or is readily knowable, and we have no patent protection either for the composition of our formulation of silicon nitride, which we refer to as MC^2 , or for the process of manufacturing our MC^2 silicon nitride and implant products made from that material. Moreover, we are aware of at least one ceramic manufacturer that already has the capability of manufacturing silicon nitride with strength, fracture resistance, and wear resistance characteristics similar to our MC^2 silicon nitride. If other orthopedic companies decide to compete with us by manufacturing implants made from silicon nitride, or by marketing implants with silicon nitride components purchased from suppliers, we will have no ability to prevent them from doing so, except to the extent that specific implant embodiments are covered by our issued patents. To date, we have been issued one U.S. patent related to our MC^2 technology, directed to the use of silicon nitride, with certain flexural strength and toughness characteristics, in the concave component of an articulating implant, where the convex component is made of a cobalt chromium metal alloy. Although we have submitted patent applications directed to other implant embodiments, such as an articulating implant where the concave component is made of a cobalt chromium metal alloy and the convex component is made of silicon nitride, or where both the concave and convex components are made of silicon nitride, there is no assurance that such applications will issue as patents. If we fail to obtain patents with claims of a scope necessary to cover the various embodiments of orthopedic implants we intend to develop, our competitors will have the right to seek to develop and market substantially similar orthopedic implants made of silicon nitride. We are aware of one other company that appears to be developing at least one implant component made from silicon nitride, and we cannot assure you that our competitors will not seek to develop and market orthopedic implants made of silicon nitride in the future. The introduction by our competitors of orthopedic implants made from silicon nitride could negatively impact our ability to maintain a competitive advantage based on our MC^2 technology, particularly if such competitive silicon nitride implants possessed strength, fracture resistance, wear resistance and imaging characteristics similar to our MC^2 silicon nitride.

We continue to develop and refine our manufacturing processes to produce silicon nitride implants, and we believe we have already developed, and will continue to develop, significant know-how related to these processes. However, there is no assurance that we will be able to maintain this know-how as trade secrets, and competitors may develop or acquire equally valuable or more valuable know-how related to the manufacture of silicon nitride implants. Further, if any of our competitors is able to obtain patent protection for its composition of silicon nitride or for its process for manufacturing silicon nitride, we could become subject to patent infringement claims and further be prevented from continuing the manufacture of our silicon nitride based implant products.

We could become subject to intellectual property litigation that could be costly, result in the diversion of management's time and efforts, require us to pay damages, prevent us from marketing our product candidates under development, and/or reduce the margins we may realize from our products that we may commercialize.

The medical devices industry is characterized by extensive litigation and administrative proceedings over patent and other intellectual property rights. Whether a product infringes a patent involves complex legal and factual issues, and the determination is often uncertain. There may be existing patents of which we are unaware that our products under development may inadvertently infringe. The likelihood that patent infringement claims may be brought against us increases as the number of participants in the market for spine, hip and knee implants increases and as we achieve more visibility in the market place and introduce products to market.

Any infringement claim against us, even if without merit, may cause us to incur substantial costs, and would place a significant strain on our financial resources, divert the attention of management from our core business, and harm our reputation. In some cases, litigation may be threatened or brought by a patent holding company or

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other adverse patent owner who has no relevant product revenues and against whom our patents may provide little or no deterrence. If we were found to infringe any patents, we could be required to pay substantial damages, including triple damages if an infringement is found to be willful, and royalties and could be prevented from selling our products unless we obtain a license or are able to redesign our products to avoid infringement. We may not be able to obtain a license enabling us to sell our products on reasonable terms, or at all, and there can be no assurance that we would be able to redesign our products in a way that would not infringe those patents. If we fail to obtain any required licenses or make any necessary changes to our technologies or the products that incorporate them, we may be unable to commercialize one or more of our products or may have to withdraw products from the market, all of which would have a material adverse effect on our business, financial condition and results of operations.

In addition, in order to further our product development efforts, we have entered into agreements with orthopedic surgeons to help us design and develop new products, and we expect to enter into similar agreements in the future. In certain instances, we have agreed to pay such surgeons royalties on sales of products which incorporate their product development contributions. There can be no assurance that surgeons with whom we have entered into such arrangements will not claim to be entitled to a royalty even if we do not believe that such products were developed by cooperative involvement between us and such surgeons. In addition, some of our surgeon advisors have agreements with other orthopedic companies pursuant to which they have agreed to assign to those other companies their rights in inventions which they conceive or develop, or help conceive or develop. There can be no assurance that one or more of these orthopedic companies will not claim ownership rights to an invention we develop in collaboration with our surgeon advisors or consultants on the basis that an agreement with such orthopedic company gives it ownership rights in the invention. Any such claim against us, even without merit, may cause us to incur substantial costs, and would place a significant strain on our financial resources, divert the attention of management from our core business and harm our reputation.

If our ceramic technologies or our product candidates conflict with the rights of others, we may not be able to manufacture or market our product candidates, which could have a material and adverse effect on us.

Our commercial success will depend in part on not infringing the patents or violating the other proprietary rights of third parties. We are aware of an issued patent that was recently granted to DePuy by the European Patent Office (EP 1212013) based on international patent application no. WO 01/17464, entitled "Combination of Material for Joint Prosthesis" (the "EP '013 patent"). The EP '013 patent was granted for nineteen different designated European states and claims an orthopedic joint prosthesis having metal on ceramic articulating surfaces, wherein the hardness of the metallic material is at least about 2500 MPa, and the hardness of the ceramic material is greater than that of the metallic material by at least about 4000 MPa, where the articulating surfaces have sphericity not more than 0.01 microns and surface roughness more than 0.05 microns.

We are aware that several third parties, including Biomet UK Ltd, have filed post-grant oppositions to the EP '013 patent raising objections as to its scope and validity. An opposition is a proceeding that allows third parties to challenge the validity of a European patent granted by the European Patent Office. There can be no assurances that any of these oppositions will be successful. Three possible outcomes are: (i) some or all of the claims survive the opposition as issued; (ii) some or all of the claims are narrowed; and/or (iii) some or all of the claims are held invalid. We are monitoring this situation closely. Final resolution of the opposition proceedings (including any appeals) may take a number of years. If this patent is not held invalid or limited in scope, and if our activities are determined to be covered by the patent, we cannot provide any assurance that DePuy would be willing to grant us a license on terms we or they would consider commercially reasonable, if at all. As a consequence, we could be prevented from manufacturing and marketing high-strength ceramic-on-metal articulating implants in the European countries where the European patent remains in force, which would have a material and adverse effect on our business, financial condition and results of operations.

The EP '013 patent has a corresponding U.S. counterpart patent application pending in the U.S. involving similar claims (U.S. Pub. 2005/0033442). The U.S. patent office recently rejected of all of these claims, although

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DePuy has an opportunity to amend the claims or argue that the examiner is wrong. The U.S. patent office has issued similar rejections with respect to applications where patents having equivalent or substantially similar claims were ultimately issued. We are monitoring prosecution of this U.S. patent application closely.

Issued patents held by others may limit our ability to develop commercial products. All issued patents are entitled to a presumption of validity under the laws of the United States. If we need suitable licenses to such patents to permit us to develop or market our product candidates, we may be required to pay significant fees or royalties and we cannot be certain that we would even be able to obtain such licenses. Competitors or third parties may obtain patents that may cover subject matter we use in developing the technology required to bring our products to market, that we use in producing our products, or that we use in treating patients with our products. We know that others have filed patent applications in various jurisdictions that relate to several areas in which we are developing products. Some of these patent applications have already resulted in patents and some are still pending. If we were found to infringe any of these issued patents or any of the pending patent applications, when and if issued, we may be required to alter our processes or product candidates, pay licensing fees or cease activities. If use of technology incorporated into or used to produce our product candidates is challenged, or if our processes or product candidates conflict with patent rights of others, third parties could bring legal actions against us, in Europe, the United States and elsewhere, claiming damages and seeking to enjoin manufacturing and marketing of the affected products. Additionally, it is not possible to predict with certainty what patent claims may issue from pending applications. In the United States, for example, patent prosecution can proceed in secret prior to issuance of a patent, provided such application is not filed in foreign jurisdiction. For U.S. patent applications that are also filed in foreign jurisdictions, such patent applications will not publish until 18 months from the filing date of the application. As a result, third parties may be able to obtain patents with claims relating to our product candidates which they could attempt to assert against us. Further, as we develop our products, third parties may assert that we infringe the patents currently held or licensed by them and we cannot predict the outcome of any such action.

There has been extensive litigation in the medical devices industry over patents and other proprietary rights. If we become involved in any litigation, it could consume a substantial portion of our resources, regardless of the outcome of the litigation. If these legal actions are successful, in addition to any potential liability for damages, we could be required to obtain a license, grant cross-licenses and pay substantial royalties in order to continue to manufacture or market the affected products.

We cannot assure you that we would prevail in any legal action or that any license required under a third party patent would be made available on acceptable terms or at all. Ultimately, we could be prevented from commercializing a product, or forced to cease some aspect of our business operations, as a result of claims of patent infringement or violation of other intellectual property rights, which could have a material and adverse effect on our business, financial condition and results of operations.

We could be prevented from using the trademark “Amedica” as our name and could be prevented from using “Amedica” in conjunction with our products, which could eliminate any goodwill associated with “Amedica” and negatively impact the marketing of our products.

We applied for but have not yet received a registration in the United States for the trademark “Amedica”. Another company, Amedica Biotech, has an earlier filed, trademark registration for the same mark. Amedica Biotech registered its mark for use in commerce with certain types of pharmaceutical products. Through we are seeking registration for use in connection with medical apparatuses, if the U.S. Patent and Trademark Office finds that we were not the first to use the mark in commerce and that a likelihood of confusion exists, we may not be able to register our mark. Further, Amedica Biotech may seek to enjoin our use of the mark. If Amedica Biotech is successful, we would have to change our name, which could be an expensive and time-consuming process, and we would lose any goodwill we have thus far created in the mark.

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We also filed an application on August 31, 2006 to register “Amedica” with the Office for Harmonization of the Internal Market, which is the trademark and industrial design registry of the European Union. We have learned that an opposition to this application was filed on February 26, 2007 by Addmedica (S.A.S.), or Addmedica, a French company, claiming a likelihood of confusion. The opposition was deemed admissible on March 9, 2007. We are currently in the “cooling off period” during which we and Addmedica have the opportunity to reach a negotiated settlement. This period, which commenced on May 11, 2007, runs for two months and may be extended by consent of the parties for up to an additional twenty-two months. If the cooling-off period is extended, either party may opt-out at any time after July 11, 2007 and proceed with an adversarial opposition. In order to reach a settlement with Addmedica, we may be forced to make concessions such as altering the European labeling of our products, restricting the European channels of distribution we plan to use to market our products, narrowing the description of goods and services in our pending application, or limiting the geographic markets we seek to operate in within Europe, any of which could have an adverse effect on our operations. If we are unable to reach a negotiated settlement and the opposition is successful, we could be prevented from using “Amedica” in commerce in the European Union. This could require us to market our products under different names in the European Union and the United States. This could adversely impact our efforts to achieve cross-border name recognition for our products, lead us to select a different trademark for the marketing of our products worldwide or to change our company name.

We may be subject to damages resulting from claims that we, our employees, or our independent sales agencies have wrongfully used or disclosed alleged trade secrets of our competitors or are in breach of non-competition agreements with our competitors or non-solicitation agreements.

Many of our employees were previously employed at other orthopedic implant companies, including our competitors and potential competitors. Many of our potential distributors sell, or in the past have sold, products of our competitors. We may be subject to claims that either we, or these employees or distributors, have inadvertently or otherwise used or disclosed the trade secrets or other proprietary information of our competitors. In addition, we have been and may in the future be subject to claims that we caused an employee or sales agent to break the terms of his or her non-competition agreement or non-solicitation agreement. Litigation may be necessary to defend against these claims. Even if we are successful in defending against these claims, litigation could result in substantial costs and be a distraction to management. If we fail in defending such claims, in addition to paying money damages, we may lose valuable intellectual property rights or personnel. A loss of key personnel or their work product could hamper or prevent our ability to commercialize products, which could have an adverse effect on our business, financial condition and results of operations.

Risks Related to Potential Litigation from Operating Our Business

If we successfully commercialize our products under development, we will become subject to potential product liability claims, and we may be required to pay damages that exceed our insurance coverage.

We expect that our business will expose us to potential product liability claims that are inherent in the design, testing, manufacture, sale and distribution of orthopedic implants. Spine, hip and knee implants involve significant risks of serious complications, including bleeding, nerve injury, paralysis, infection, and even death. Any product liability claim brought against us, with or without merit, could result in the increase of our product liability insurance rates or in our inability to secure coverage in the future on commercially reasonable terms, if at all. In addition, if our product liability insurance proves to be inadequate to pay a damage award, we may have to pay the excess of this award out of our cash reserves, which could significantly harm our financial condition. If longer-term patient results and experience indicate that our products or any component of a product causes tissue damage, motor impairment or other adverse effects, we could be subject to significant liability. A product liability claim, even one without merit, could harm our reputation in the industry, lead to significant legal fees, and result in the diversion of management’s attention from managing our business.

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Any claims relating to our improper handling, storage or disposal of biological or hazardous materials could be time consuming and costly.

Although we do not believe that the manufacture of our ceramic implant products will involve the use of hazardous materials, it is possible that regulatory authorities may disagree or that changes to our manufacturing processes may result in such use. Our business and facilities and those of our suppliers and future suppliers may therefore be subject to foreign, federal, state and local laws and regulations governing the use, manufacture, storage, handling and disposal of hazardous materials and waste products. We may incur significant expenses in the future relating to any failure to comply with environmental laws. Any such future expenses or liability could have a significant negative impact on our business, financial condition and results of operations.

Risks Related to Our Need for Financing

We will require substantial additional financing and our failure to obtain additional funding when needed could force us to delay, reduce or eliminate our product development programs or commercialization efforts.

We will require substantial future capital in order to continue to conduct the research and development and regulatory clearance and approval activities necessary to bring our products to market and to establish effective marketing and sales capabilities. We do not expect our existing capital resources and the net proceeds from this offering to be sufficient to enable us to fund the completion of the development and commercialization of all of our product candidates. We expect that our existing capital resources and the net proceeds from this offering will enable us to maintain currently planned operations through the end of 2009. However, our operating plan may change, and we may need additional funds sooner than anticipated to meet our operational needs and capital requirements for product development, clinical trials and commercialization.

We currently have no committed sources of capital. Additional funds may not be available when we need them on terms that are acceptable to us, or at all. If adequate funds are not available on a timely basis, we may terminate or delay the development of one or more of our product candidates, or delay establishment of sales and marketing capabilities or other activities necessary to commercialize our product candidates.

Our future capital requirements will depend on many factors, including:

- the scope, progress, results and cost of our product development efforts;
- the costs, timing and outcomes of regulatory reviews of our implant products;
- the number and types of implant products we develop and commercialize;
- the costs of establishing sales and marketing infrastructure and of establishing commercial-scale manufacturing operations;
- the costs of preparing, filing and prosecuting patent applications and maintaining, enforcing and defending intellectual property-related claims;
- our ability to establish strategic collaborations or other arrangements on terms acceptable to us, the amount and timing of our expenditures, and our collaborators' contributions under such arrangements; and
- the extent and scope of our general and administrative expenses.

Raising additional capital by issuing securities or through licensing arrangements may cause dilution to existing stockholders, restrict our operations or require us to relinquish proprietary rights.

To the extent that we raise additional capital through the sale of equity or convertible debt securities, your ownership interest will be diluted, and the terms may include liquidation or other preferences that adversely

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affect your rights as a stockholder. Debt financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions such as incurring additional debt, making capital expenditures or declaring dividends. If we raise additional funds through collaboration and licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies or products or grant licenses on terms that are not favorable to us. Any of these events could adversely affect our ability to achieve our product development and commercialization goals and have a material adverse effect on our business, financial condition and results of operations.

We have incurred losses since our inception and anticipate that we will continue to incur substantial losses for the foreseeable future. We may never achieve or sustain profitability.

We have a limited operating history, have never generated any revenue from product sales and have incurred substantial net losses since our inception in 1996. As of March 31, 2007, we had an accumulated deficit of \$18.2 million. Our net loss was \$6.2 million for the year ended December 31, 2006, and \$5.6 million for the three months ended March 31, 2007. Our losses have resulted principally from costs incurred in connection with our research and development activities and from general and administrative expenses associated with our operations. We have not yet commercialized any products, we do not expect to introduce any of our lead product candidates until 2008 and we do not anticipate introducing one of our lead spinal spacer product candidates until the second half of 2008. We do not expect to start clinical trials of the earliest of our pipeline products before the first half of 2009. Until we receive FDA clearances for our lead implant products and successfully launch those products, we expect to continue to incur substantial losses for the foreseeable future. We also expect our research and development expenses and general and administrative expenses to increase substantially following the completion of this offering as our products advance through the development cycle and we expand our infrastructure. As a result, we will need to generate significant revenues to pay these expenses and achieve profitability.

If we are unable to develop and commercialize any of our product candidates, if development is delayed, or if sales revenue from any product that receives marketing approval is insufficient, we may never become profitable. Even if we do become profitable, we may not be able to sustain or increase our profitability on a quarterly or annual basis.

Risks Related to Our Common Stock and this Offering

There has been no prior public market for our common stock and an active trading market may not develop.

Prior to this offering, there has been no public market for our common stock. We cannot predict the extent to which investor interest in our company will lead to the development of an active trading market on The NASDAQ Global Market or otherwise or how liquid that market might become. The lack of an active market may impair the value of your shares and your ability to sell your shares at the time you wish to sell them. An inactive market may also impair our ability to raise capital by selling our common stock and may impair our ability to acquire other companies, products or technologies by using our common stock as consideration.

We expect that the price of our common stock will fluctuate substantially and you may not be able to sell your shares at or above the offering price.

You should consider an investment in our common stock risky and invest only if you can withstand a significant loss and wide fluctuations in the market value of your investment. The initial public offering price for the shares of our common stock sold in this offering will be determined by negotiation between the underwriters and us based on several factors. This price may not reflect the market price of our common stock following this offering. You may be unable to sell your shares of common stock at or above the initial public offering price due to fluctuations in the market price of our common stock arising from changes in our operating performance or prospects. In addition, the volatility of orthopedic implant company stocks often does not correlate to the

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operating performance of the companies represented by such stocks. Some of the factors that may cause the market price of our common stock to fluctuate include:

- our ability to develop, obtain regulatory clearances or approvals for, and market new and enhanced implant product candidates on a timely basis;
- changes in governmental regulations or in the status of our regulatory approvals, clearances or future applications;
- our announcements or our competitors' announcements regarding new products, product enhancements, significant contracts, number and productivity of distributors, number of hospitals and surgeons using products, acquisitions or strategic investments;
- announcements of technological or medical innovations for the treatment of orthopedic pathology;
- delays or other problems with the manufacturing of our implant product candidates and related instrumentation;
- volume and timing of orders for our product candidates, if and when commercialized;
- changes in the availability of third-party reimbursement in the United States and other countries;
- quarterly variations in our or our competitors' results of operations;
- changes in earnings estimates or recommendations by securities analysts, if any, who cover our common stock;
- failure to meet estimates or recommendations by securities analysts, if any, who cover our stock;
- changes in healthcare policy in the United States and internationally;
- product liability claims or other litigation involving us;
- sales of large blocks of our common stock, including sales by our executive officers, directors and significant stockholders;
- disputes or other developments with respect to intellectual property rights;
- changes in accounting principles; and
- general market conditions and other factors, including factors unrelated to our operating performance or the operating performance of our competitors.

These and other external factors may cause the market price and demand for our common stock to fluctuate substantially, which may limit or prevent investors from readily selling their shares of common stock and may otherwise negatively affect the liquidity of our common stock. In addition, in the past, when the market price of a stock has been volatile, holders of that stock have sometimes instituted securities class action litigation against the company that issued the stock. If our stockholders brought a lawsuit against us, we could incur substantial costs defending the lawsuit regardless of the outcome. Such a lawsuit also would divert the time and attention of our management.

Securities analysts may not initiate coverage of our common stock or may issue negative reports, which may have a negative impact on the market price of our common stock.

Securities analysts may elect not to provide research coverage of our common stock after the completion of this offering. If securities analysts do not cover our common stock after the completion of this offering, the lack of research coverage may cause the market price of our common stock to decline. The trading market for our common stock may be affected in part by the research and reports that industry or financial analysts publish about our business. If one or more of the analysts who elect to cover us downgrade our stock, our stock price would likely decline rapidly. If one or more of these analysts cease coverage of us, we could lose visibility in the

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market, which in turn could cause our stock price to decline. In addition, recently adopted rules mandated by the Sarbanes-Oxley Act and a global settlement reached in 2003 among the Securities and Exchange Commission, or the SEC, other regulatory agencies and a number of investment banks have led to a number of fundamental changes in how analysts are reviewed and compensated. In particular, many investment banking firms are required to contract with independent financial analysts for their stock research. It may be difficult for a company such as ours, with a smaller market capitalization, to attract independent financial analysts that will cover our common stock. This could have a negative effect on the market price of our stock.

If our executive officers, directors and principal stockholders choose to act together, they will be able to exert significant influence over us and our significant corporate decisions and may act in a manner that advances their best interests and not necessarily those of other stockholders.

Upon completion of this offering, our executive officers, directors, and beneficial owners of 5% or more of our outstanding common stock and their affiliates will beneficially own approximately % of our outstanding common stock, or approximately % if the underwriters' over-allotment option is exercised in full. As a result, these persons, acting together, will have the ability to influence significantly the outcome of all matters requiring stockholder approval, including the election and removal of directors and any merger, consolidation, or sale of all or substantially all of our assets and they may act in a manner that advances their best interests and not necessarily those of other stockholders, including investors in this offering, by, among other things:

- delaying, deferring or preventing a change in control of us;
- entrenching our management and/or our board of directors;
- impeding a merger, consolidation, takeover or other business combination involving us;
- discouraging a potential acquirer from making a tender offer or otherwise attempting to obtain control of us; or
- causing us to enter into transactions or agreements that are not in the best interests of all stockholders.

We also plan to reserve up to % of the shares offered in this offering under a directed share program in which our executive officers and directors, principal stockholders, employees, business associates and related persons may be able to purchase shares in this offering at the initial public offering price. This program may further increase the percentage of stock held by persons whose interests are aligned with the interests of our executive officers, directors and principal stockholders.

Our management team may allocate the proceeds of this offering in ways in which you may not agree.

We intend to use the net proceeds from this offering to fund our product development efforts and the clearance or approval and subsequent commercialization of our product candidates; to establish our hybrid sales and marketing organization; to scale-up our manufacturing operations, continue to build out and equip our manufacturing facilities and to recruit and train manufacturing personnel; to support our research and development efforts; and for general corporate purposes. For a further description of our intended use of the net proceeds of this offering, see the "Use of Proceeds" section of this prospectus.

Because of the number and variability of factors that will determine our use of the net proceeds from this offering, our ultimate use of these proceeds may vary substantially from their currently intended use. Our management will have considerable discretion over the use of the net proceeds of this offering. Stockholders may not agree with such uses, and the net proceeds may be used in a manner that does not increase our operating results or market value.

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Future sales of our common stock in the public market after this offering may cause our stock price to decline and impair our ability to raise future capital through the sale of our equity securities.

Upon completion of this offering, our current stockholders will hold a substantial number of shares of our common stock that they will be able to sell in the public market in the near future. Sales by our current stockholders of a substantial number of shares after this offering could significantly reduce the market price of our common stock. Moreover, following the completion of this offering, the holders of 15,273,673 shares of common stock, assuming the conversion of our convertible preferred stock, and holders of warrants to purchase 4,057,040 shares of common stock, assuming the conversion of preferred stock warrants into common stock warrants, will have rights, subject to some conditions, to require us to include their shares in registration statements that we may file for ourselves or other stockholders. These shares of common stock, totaling 19,330,713 shares, assuming the exercise of the common stock warrants, represent approximately % of the total number of shares of our common stock to be outstanding immediately after this offering, assuming no exercise of the underwriters' over-allotment option. Please see the "Description of Capital Stock—Registration Rights" section of this prospectus for a description of the registration rights of these stockholders. In addition, immediately upon completion of this offering, approximately 16,567,865 and 19,496,188 shares of our outstanding common stock then held by existing stockholders which are deemed to be "restricted securities" pursuant to Rule 144 under the Securities Act of 1933, as amended, or the Securities Act, will be eligible for sale in reliance on Rule 144(k) and Rule 144, respectively, subject to the lock-up agreements described in the "Underwriters" section of this prospectus. Upon completion of this offering, a holder of warrants to acquire shares of our common stock will be able to net exercise such warrants by surrendering a portion of that holder's warrants as payment of the exercise price rather than paying the exercise price in cash. As of May 1, 2007, warrants to acquire approximately 1,717,452 and 2,086,298 shares of our common stock would be eligible to rely upon on Rule 144(k) and Rule 144, respectively, if they are net exercised subject to the lock-up agreements.

We have options for 3,457,627 shares outstanding as of May 1, 2007 which we intend to register, and we may issue additional options before the completion of this offering that we may register. Shares issued by us upon exercise of options granted under our stock plans would be eligible for sale in the public market upon the effective date of the registration statement for those shares, subject to the lock-up agreements described in the "Underwriters" section of this prospectus. If any of these holders cause a large number of securities to be sold in the public market, the sales could reduce the trading price of our common stock. These sales also could impede our ability to raise future capital. Please see the "Shares Eligible for Future Sale" section of this prospectus for a description of sales that may occur in the future.

We will incur increased costs as a result of changes in laws and regulations relating to corporate governance matters.

As a public reporting company, we will need to comply with the Sarbanes-Oxley Act of 2002 and the related rules and regulations adopted by the SEC and by The NASDAQ Global Market, including expanded disclosures, accelerated reporting requirements and more complex accounting rules. Compliance with Section 404 of the Sarbanes-Oxley Act of 2002 and other requirements will increase our costs and require additional management resources. Additionally, these laws and regulations could make it more difficult or more costly for us to obtain certain types of insurance, including director and officer liability insurance, and we may be forced to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. The impact of these events could also make it more difficult for us to attract and retain qualified persons to serve on our board of directors, our board committees or as executive officers. We are presently evaluating and monitoring developments with respect to these laws and regulations and cannot predict or estimate the amount or timing of additional costs we may incur to respond to their requirements.

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Anti-takeover provisions in our organizational documents and Delaware law may discourage or prevent a change of control, even if an acquisition would be beneficial to our stockholders, which could affect our stock price adversely and prevent attempts by our stockholders to replace or remove our current management.

Our amended and restated certificate of incorporation and amended and restated bylaws that will be in effect upon the completion of this offering contain provisions that could discourage, delay or prevent a merger, acquisition or other change of control of our company or changes in our board of directors that our stockholders might consider favorable, including transactions in which you might receive a premium for your shares. These provisions also could limit the price that investors might be willing to pay in the future for shares of our common stock, thereby depressing the market price of our common stock. Stockholders who wish to participate in these transactions may not have the opportunity to do so. Furthermore, these provisions could prevent or frustrate attempts by our stockholders to replace or remove management. These provisions:

- allow the authorized number of directors to be changed only by resolution of our board of directors;
- authorize our board of directors to create and issue, without prior stockholder approval, preferred stock that may have rights senior to those of our common stock and that, if issued, could operate as a “poison pill” to dilute the stock ownership of a potential hostile acquirer to prevent an acquisition that is not approved by our board of directors;
- provide for a classified board of directors, such that not all members of our board will be elected at one time;
- prohibit our stockholders from filling board vacancies, limit who may call stockholder meetings, and prohibit the taking of stockholder action by written consent;
- prohibiting our stockholders from making certain changes to our amended and restated certificate of incorporation or amended and restated bylaws except with the approval of holders of % of the outstanding shares of our capital stock entitled to vote; and
- require advance written notice of stockholder proposals that can be acted upon at stockholders meetings and director nominations to our board of directors.

In addition, we are subject to the provisions of Section 203 of the Delaware General Corporation Law, which may prohibit certain business combinations with stockholders owning 15% or more of our outstanding voting stock. Any delay or prevention of a change of control transaction or changes in our board of directors could cause the market price of our common stock to decline.

Investors in this offering will pay a much higher price than the book value of our common stock and, therefore, you will incur immediate and substantial dilution of your investment.

If you purchase common stock in this offering, you will pay more for your shares than the amounts paid by existing stockholders for their shares. You will incur immediate and substantial dilution of \$ per share, representing the difference between the initial public offering price per share of our common stock and our pro forma net tangible book value per share after giving effect to this offering at the assumed initial public offering price of \$ per share of our common stock. In the past, we also issued options and warrants to acquire common stock at prices significantly below the assumed initial public offering price. To the extent these outstanding options are ultimately exercised, you will sustain further dilution. For a further description of the dilution you will incur in this offering, see the “Dilution” section of this prospectus.

We do not intend to pay cash dividends.

We have never declared or paid cash dividends on our capital stock and we do not anticipate paying any cash dividends in the foreseeable future. We currently intend to retain all available funds and any future earnings for use in the operation and expansion of our business. In addition, the terms of any future debt or credit facility may preclude us from paying any dividends. As a result, capital appreciation, if any, of our common stock will be your sole source of potential gain in your investment for the foreseeable future.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus contains forward-looking statements that are based on our management's beliefs and assumptions and on information currently available to us. The forward-looking statements are contained principally in, but not limited to, the sections entitled "Prospectus Summary," "Risk Factors," "Management's Discussion and Analysis of Financial Condition and Results of Operations" and "Business." These statements relate to future events or to our future financial performance and involve known and unknown risks, uncertainties, and other factors that may cause our or our industry's actual results, levels of activity, performance or achievements to be materially different from any future results, levels of activity, performance or achievements expressed or implied by these forward-looking statements. Forward-looking statements include, but are not limited to, statements about:

- our ability to market, commercialize and achieve market acceptance of any of our product candidates that we are developing or may develop in the future;
- our ability to become a profitable orthopedics implant company;
- our ability to succeed in obtaining FDA clearance for our lead product candidates or FDA approvals for our pipeline product candidates;
- the timing, costs and other limitations involved in obtaining regulatory clearance or approval for any of our product candidates and, thereafter, continued compliance with governmental regulation of our then existing products and activities;
- our ability to protect our intellectual property and operate our business without infringing upon the intellectual property rights of others;
- our ability to obtain sufficient quantities and satisfactory quality of raw materials to meet our manufacturing needs;
- the availability of adequate coverage reimbursement from third-party payors in the United States;
- our estimates regarding anticipated operating losses, future revenue, expenses, capital requirements, liquidity and our needs for additional financing;
- our ability to establish a sales and marketing infrastructure and enter into suitable arrangements with independent sales agencies;
- our ability to scale-up our manufacturing capabilities and facilities and become fully operational for commercial-scale production;
- our ability to develop effective and cost efficient manufacturing processes for our products;
- the safety and efficacy of our product candidates;
- the timing of and our ability to conduct clinical trials;
- our use of the proceeds of this offering;
- potential changes to the healthcare delivery systems and payment methods by Congress and certain state legislatures;
- any potential requirement by regulatory agencies that we restructure our relationships with referring surgeons;
- our ability to develop and maintain relationships with surgeons, hospitals and marketers of our implants; and
- our ability to attract and retain a qualified management team, engineering team, sales and marketing team, key surgeon advisors and other qualified personnel and advisors.

In some cases, you can identify forward-looking statements by terms such as "may," "could," "will," "should," "would," "expect," "plan," "intend," "anticipate," "believe," "estimate," "predict," "potential,"

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“project” or “continue” or the negative of these terms or other comparable terminology. These statements are only predictions. You should not place undue reliance on forward-looking statements because they involve known and unknown risks, uncertainties and other factors, which are, in some cases, beyond our control and which could materially affect results. Factors that may cause actual results to differ materially from current expectations include, among other things, those listed under the heading “Risk Factors” and elsewhere in this prospectus. If one or more of these risks or uncertainties occur, or if our underlying assumptions prove to be incorrect, actual events or results may vary significantly from those implied or projected by the forward-looking statements.

Any forward-looking statement in this prospectus reflects our current views with respect to future events and is subject to these and other risks, uncertainties and assumptions relating to our operations, results of operations, industry and future growth. Except as required by law, we assume no obligation to update or revise any forward-looking statements contained in this prospectus, whether as a result of new information, future events or otherwise. The Private Securities Litigation Reform Act of 1995 and Section 27A of the Securities Act do not protect any forward-looking statements that we make in connection with this offering.

USE OF PROCEEDS

We estimate that we will receive approximately \$ million in net proceeds from the sale of shares of common stock that we are offering, or approximately \$ million if the underwriters exercise their over-allotment option in full, based upon the assumed initial public offering price of \$ per share, the midpoint of the range on the front cover of this prospectus, and after deducting underwriting discounts and commissions and estimated offering expenses payable by us. A \$1.00 per share increase (decrease) in the assumed initial public offering price of \$ per share would increase (decrease) the net proceeds to us from this offering by \$ million, or approximately \$ million if the underwriters exercise their over-allotment option in full, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting the underwriting discounts and commissions and estimated offering expenses payable by us.

The principal purposes of this offering are to fund the development and commercialization of our lead products, to build our sales, marketing and distribution capabilities, to establish commercial-scale manufacturing operations, to fund research and development activities for our pipeline product candidates, to increase our working capital, to create a public market for our common stock, to increase our ability to access the capital markets in the future, to provide liquidity for our existing stockholders, and for general corporate purposes.

We currently expect to use the net proceeds from this offering in the following manner:

- approximately \$ to fund the development and commercialization of our lead product candidates;
- approximately \$ to fund research and development and commercialization activities of our pipeline product candidates;
- approximately \$ to build sales, marketing and distribution capabilities for spine and reconstructive implants; and
- the remainder for working capital and other general corporate purposes.

In addition, we may use a portion of our net proceeds to introduce our spine, hip and knee implant products into selected international markets. Also, while we have no present understandings, commitments, or agreements to enter into any potential acquisitions, a portion of the net proceeds may also be used to acquire or invest in complementary businesses, technologies, services or products.

As of the date of this prospectus, we cannot specify with certainty all of the particular uses for the net proceeds to be received upon the completion of this offering. The amount and timing of our actual expenditures may vary significantly depending upon numerous factors, including the ultimate resolution of our FDA submissions for clearances or approvals of our product candidates, the specific clinical trial requirements imposed for market approval of our pipeline product candidates, our revenues, operating costs and capital expenditures, and other factors described under "Risk Factors." We may find it necessary or advisable to use the net proceeds for other purposes, and our management will retain broad discretion in the allocation of our net proceeds from this offering.

Pending use of our net proceeds from this offering, we plan to invest the proceeds in a variety of capital preservation investments, including investment-grade, interest-bearing instruments. We cannot predict whether the net proceeds will yield a favorable return.

As of March 31, 2007, we had cash, cash equivalents and marketable securities of approximately \$10.3 million. We believe that the net proceeds from this offering, together with our cash and cash equivalent balances and interest we earn on these balances, will be sufficient to meet our anticipated cash requirements through the end of 2009. We will need to raise substantial additional funds before we can expect to commercialize all of our product candidates. We may satisfy our future cash needs through the sale of equity securities, debt financings, working capital lines of credit, corporate collaborations or license agreements, grant funding, or through interest income earned on cash balances.

DIVIDEND POLICY

We have never paid or declared any cash dividends on our common stock, and we do not anticipate paying any cash dividends on our common stock in the foreseeable future. We intend to retain all available funds and any future earnings to fund the development and expansion of our business.

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CAPITALIZATION

The table below includes:

- our unaudited cash, cash equivalents and marketable securities and our unaudited capitalization on an actual basis as of March 31, 2007;
- our unaudited cash, cash equivalents and marketable securities and our unaudited capitalization as of March 31, 2007, on a pro forma basis giving effect to (i) the issuance of 4,456,500 shares of our Series D convertible preferred stock in April 2007 for net proceeds of approximately \$12.4 million, (ii) the automatic conversion of all outstanding shares of our convertible preferred stock, including our Series D convertible preferred stock into an aggregate of 31,856,558 shares of our common stock upon the completion of this offering, and (iii) the conversion of 4,057,040 preferred stock warrants into common stock (but not assuming the exercise of these common stock warrants), including warrants to purchase a total of 253,290 shares of Series D convertible preferred stock issued in April 2007, and the related reclassification of the preferred stock warrant liability to additional paid in capital; and
- our unaudited cash, cash equivalents and marketable securities and our unaudited capitalization as of March 31, 2007, on a pro forma basis, as adjusted to give effect to the sale of _____ shares of common stock in this offering at an assumed initial public offering price of \$ _____ per share, the midpoint of the range on the front cover of this prospectus, after deducting underwriting discounts and commissions and estimated offering expenses.

You should read this table together with “Selected Financial Data,” “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and our financial statements and the related notes appearing elsewhere in this prospectus.

	As of March 31, 2007 (unaudited)		Pro Forma (as adjusted)
	Actual	Pro Forma	
Cash, cash equivalents and marketable securities	\$ 10,325,322	\$ 22,725,322	\$
Current portion of long-term debt	\$ 418,616	\$ 418,616	\$
Long-term debt	1,137,625	1,137,625	
Preferred stock warrant liability	6,304,963	—	
Convertible preferred stock (consisting of Series A, Series B, Series C convertible preferred stock on an aggregated basis), \$0.01 par value; 40,000,000 shares authorized, 27,400,058 shares issued and outstanding actual, and no shares issued and outstanding, pro forma and pro forma as adjusted	26,389,982	—	
Stockholders’ equity (deficit):			
Common stock, \$0.01 par value; 60,000,000 shares authorized, 8,678,995 shares issued and outstanding actual, 40,535,553 shares issued and outstanding pro forma; _____ shares issued and outstanding pro forma as adjusted	86,790	405,356	
Additional paid-in-capital	527,561	45,303,940	
Deficit accumulated during the development stage	(18,174,317)	(18,174,317)	
Total stockholders’ equity (deficit)	(17,559,966)	27,534,979	
Total capitalization	\$ 16,691,220	\$ 29,091,220	\$

A \$1.00 per share increase (decrease) in the assumed initial public offering price of \$ _____ per share would increase (decrease) each of additional paid-in-capital, total stockholders’ equity (deficit) and total capitalization by approximately \$ _____ million, assuming that the number of shares offered by us, as set forth

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on the cover page of this prospectus, remains the same and after deducting underwriting discounts and commissions and estimated offering expenses payable by us. The pro forma information discussed above is illustrative only and following the completion of this offering will be adjusted based on the actual initial public offering price and other terms of this offering determined at pricing.

The outstanding share information set forth above is as of March 31, 2007, and excludes:

- 3,457,627 shares of common stock issuable upon the exercise of outstanding options to purchase common stock, at a weighted average exercise price of \$0.40 per share;
- 4,057,040 shares of common stock issuable upon the exercise of warrants for shares of Series A, Series B, Series C and Series D convertible preferred stock, on an as-converted basis, outstanding as of May 1, 2007, at a weighted average exercise price of \$1.36 per share;
- 857,163 additional shares of common stock reserved for issuance under our 2003 Stock Option Plan; and
- additional shares of common stock for issuance under our 2007 Stock Plan.

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DILUTION

If you invest in our common stock, your ownership interest will be diluted to the extent of the difference between the initial public offering price per share of our common stock and the pro forma net tangible book value per share of our common stock after this offering. We calculate net tangible book value per share by dividing the net tangible book value, or tangible assets less total liabilities, by the number of outstanding shares of common stock.

Our historical net tangible book value as of March 31, 2007 was a deficit of \$17,559,966 or \$2.02 per share of common stock. Our pro forma net tangible book value at March 31, 2007 was \$27,534,979, or \$0.68 per share, based on 40,535,553 shares of our common stock outstanding after giving effect to the conversion of all outstanding shares of our preferred stock, including 4,456,500 shares of our Series D convertible preferred stock issued in April 2007, into common stock and the conversion of 4,057,040 preferred stock warrants into common stock warrants, including warrants to purchase a total of 253,290 shares of Series D convertible preferred stock issued in April 2007, and the related reclassification of the preferred stock warrant liability to additional paid in capital, upon the closing of this offering. After giving effect to the sale of _____ shares of common stock by us at an assumed initial public offering price of \$ _____ per share, less the underwriting discounts and commissions and our estimated offering expenses, our pro forma net tangible book value at March 31, 2007 would be \$ _____ million, or \$ _____ per share. This represents an immediate increase in the pro forma net tangible book value of \$ _____ per share to existing stockholders and an immediate dilution of \$ _____ per share to new investors purchasing shares at an assumed initial public offering price of \$ _____ per share. The following table illustrates this per share dilution:

Assumed initial public offering price per share	\$
Actual net tangible deficit per share as of March 31, 2007	\$(2.02)
Pro forma increase per share attributable to conversion of preferred stock and preferred stock warrants	<u>2.70</u>
Pro forma net tangible book value per share as of March 31, 2007, before this offering	0.68
Increase in pro forma net tangible book value per share attributable to new investors	<u> </u>
Pro forma net tangible book value per share after this offering	<u> </u>
Dilution in pro forma net tangible book value per share to new investors	<u>\$</u>

A \$1.00 increase (decrease) in the assumed initial public offering price of \$ _____ per share would increase (decrease) the pro forma net tangible book value by \$ _____ million, the pro forma net tangible book value per share after this offering by \$ _____ per share and the dilution in pro forma net tangible book value per share to investors in this offering by \$ _____ per share, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting the underwriting discounts and commissions and estimated offering expenses payable by us.

If the underwriters exercise their over-allotment option in full to purchase _____ additional shares of common stock in this offering, the pro forma as adjusted net tangible book value per share after the offering would be \$ _____ per share, the increase in the pro forma net tangible book value per share to existing stockholders would be \$ _____ per share and the dilution to new investors purchasing common stock in this offering would be \$ _____ per share.

The following table shows on a pro forma basis at March 31, 2007, after giving effect to the automatic conversion of all outstanding shares of our convertible preferred stock, including 4,456,500 shares of our Series D convertible preferred stock issued in April 2007, into an aggregate of 31,856,558 shares of common stock upon the closing of this offering, the difference between the number of shares of common stock purchased from us, the total consideration paid to us and the average price paid per share by existing stockholders and by new public investors purchasing common stock in this offering:

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	Shares Purchased		Total Consideration		Average Price Per Share
	Number	Percent	Amount	Percent	
Existing stockholders	40,535,553	%	\$44,910,038	%	\$ 1.11
New public investors		%		%	
Total		100%	\$	100%	

A \$1.00 increase (decrease) in the assumed initial public offering price of \$ _____ per share would increase (decrease) the total consideration paid by new investors by \$ _____ million, or increase (decrease) the percent of total consideration paid by new investors by _____%, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same.

If the underwriters exercise their option in full, sales by us in this offering will reduce the percentage of shares held by existing stockholders to _____% and will increase the number of shares held by new investors to _____, or _____%.

This information is based on shares outstanding as of March 31, 2007 and excludes:

- 3,457,627 shares of common stock issuable upon the exercise of outstanding options to purchase common stock, at a weighted average exercise price of \$0.40 per share;
- 4,057,040 shares of common stock issuable upon the exercise of warrants for shares of Series A, Series B, Series C and Series D convertible preferred stock, on an as-converted basis, outstanding as of May 1, 2007, at a weighted average exercise price of \$1.36 per share;
- 857,163 additional shares of common stock reserved for issuance under our 2003 Stock Option Plan; and
- _____ additional shares of common stock for issuance under our 2007 Stock Plan.

To the extent these outstanding options or warrants are exercised, there will be further dilution to the new investors.

If all our outstanding options and warrants noted above had been exercised, the pro forma net tangible book value as of March 31, 2007 would have been \$34,441,421, or \$0.72 per share, and the pro forma net tangible book value after this offering would have been \$ _____, or \$ _____ per share, causing dilution to new investors of \$ _____ per share. Additionally, assuming all outstanding options and warrants noted above had been exercised, the difference between the number of shares of common stock purchased from us, the total consideration paid to us, and the average price paid per share by existing stockholders and by new investors purchasing common stock in this offering would be as follows:

	Shares Purchased		Total Consideration		Average Price Per Share
	Number	Percent	Amount	Percent	
Existing stockholders	48,050,220	%	\$51,816,480	%	\$ 1.08
New public investors		%		%	
Total		100%	\$	100%	

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SELECTED FINANCIAL DATA

The following selected financial data should be read in conjunction with “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and our audited financial statements and the related notes included elsewhere in this prospectus. The selected statement of operations data for the years ended December 31, 2004, 2005 and 2006 and selected balance sheet data as of December 31, 2005 and 2006 were derived from our audited financial statements that are included elsewhere in this prospectus. The selected statement of operations data for the three months ended March 31, 2006 and 2007 and for the period from December 10, 1996 (inception) through March 31, 2007 and selected balance sheet data as of March 31, 2007 were derived from our unaudited financial statements that are included elsewhere in this prospectus. The selected statement of operations data for the years ended December 31, 2002 and 2003 and selected balance sheet data as of December 31, 2002, 2003 and 2004 were derived from our financial statements audited by our former auditors and are not included in this prospectus. In the opinion of management, the unaudited financial statements were prepared on a basis consistent with our audited financial statements contained in this prospectus and include all adjustments necessary for the fair presentation of the financial information contained in those statements. The historical results presented below are not necessarily indicative of financial results to be achieved in future periods, and the results for the three months ended March 31, 2007 are not necessarily indicative of results to be expected for the full year.

	<u>Year ended December 31,</u>					<u>Three Months Ended</u>		<u>Period from</u>
	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>March 31,</u>	<u>December 10, 1996</u>	
						<u>(unaudited)</u>	<u>through</u>	<u>March 31, 2007</u>
							<u>(unaudited)</u>	<u>(unaudited)</u>
Statement of Operations Data:								
Grant revenue	\$ 304,333	\$ 299,583	\$ 208,252	\$ 69,207	\$ 94,850	\$ —	\$ —	\$ 1,234,476
Operating expenses:								
Research and development	207,298	380,771	1,419,293	2,966,991	4,974,380	1,100,125	1,479,340	11,802,694
General and administrative	67,551	142,377	398,208	576,295	1,113,500	184,425	405,380	2,806,322
Sales and marketing	—	—	—	416,847	607,538	111,038	125,740	1,150,125
Total operating expenses	<u>274,849</u>	<u>523,148</u>	<u>1,817,501</u>	<u>3,960,133</u>	<u>6,695,418</u>	<u>1,395,588</u>	<u>2,010,460</u>	<u>15,759,141</u>
Income (loss) from operations	29,484	(223,565)	(1,609,249)	(3,890,926)	(6,600,568)	(1,395,588)	(2,010,460)	(14,524,665)
Interest income (expense), net	(16,705)	(6,863)	107,211	248,838	727,939	150,487	129,148	1,153,775
Change in value of preferred stock warrants	—	—	(254,089)	(577,000)	(290,925)	(72,731)	(3,681,413)	(4,803,427)
Net income (loss)	<u>\$ 12,779</u>	<u>\$ (230,428)</u>	<u>\$ (1,756,127)</u>	<u>\$ (4,219,088)</u>	<u>\$ (6,163,554)</u>	<u>\$ (1,317,832)</u>	<u>\$ (5,562,725)</u>	<u>\$ (18,174,317)</u>
Basic and diluted loss per share	<u>\$ 0.00</u>	<u>\$ (0.03)</u>	<u>\$ (0.20)</u>	<u>\$ (0.49)</u>	<u>\$ (0.71)</u>	<u>\$ (0.15)</u>	<u>\$ (0.64)</u>	
Weighted average number of shares outstanding								
—basic and diluted	<u>8,000,000</u>	<u>8,110,933</u>	<u>8,585,873</u>	<u>8,612,014</u>	<u>8,661,713</u>	<u>8,655,595</u>	<u>8,678,995</u>	
	<u>As of December 31,</u>					<u>As of</u>		
	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>March 31,</u>		
						<u>(unaudited)</u>		
Balance Sheet Data:								
Cash, cash equivalents and marketable securities	\$ 5,841	\$5,244,091	\$10,583,799	\$ 6,179,821	\$ 13,469,135	\$ 10,325,322		
Working capital	24,268	5,097,513	8,120,974	5,854,862	11,967,712	9,541,106		
Total assets	73,873	5,298,746	11,578,791	7,987,694	19,861,310	17,207,969		
Long-term debt, including current portion	—	—	—	—	1,621,898	1,556,241		
Convertible preferred stock	—	5,289,266	12,153,095	12,153,095	26,389,982	26,389,982		
Total stockholders’ equity (deficit)	(242,195)	(173,258)	(1,902,737)	(6,066,589)	(12,074,168)	(17,559,966)		

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

You should read the following discussion and analysis of our financial condition and results of operations together with our financial statements and related notes appearing elsewhere in this prospectus. This discussion and analysis contains forward-looking statements that involve risks, uncertainties and assumptions. You should review the "Risk Factors" section of this prospectus for a discussion of important factors that could cause actual results to differ materially from the results described in or implied by the forward-looking statements described in the following discussion and analysis.

Overview

We are an orthopedic implants company focused on using our silicon nitride ceramic technologies to develop, manufacture and commercialize a broad range of advanced, high-performance spine and joint implants. We have developed a formulation of silicon nitride which we believe has the strength, toughness and wear resistance necessary to overcome the limitations of currently available orthopedic implants. Upon introduction to market, we believe our implants will represent the first commercial use of silicon nitride ceramics in orthopedic applications and will have the potential to provide an improved combination of characteristics, including greater strength and resistance to fracture, improved resistance to wear, greater ability to promote bone attachment and better compatibility with surgical and diagnostic imaging. Based on these potential advantages, we believe our silicon nitride product candidates may achieve better long-term clinical outcomes with enhanced durability, longevity, biocompatibility and patient fit. While we have not received regulatory clearance or approval for any of our product candidates that we intend to commercialize, in the second half of 2007 we expect to submit a premarket notification to the U.S. Food and Drug Administration, or the FDA, seeking regulatory clearance of our first commercial product candidate. Our goal is to establish our silicon nitride implants as new standards of care for the largest and fastest growing orthopedic implant markets: the spine, hip and knee markets.

Our lead product candidates are our *Valeo*[™] family of spinal implants. Our *Valeo* spinal fixation implants are intended to restore and maintain the alignment of vertebrae in the cervical, or neck, region and lumbar, or lower back, region of the spine. The *Valeo* spinal fixation implants will feature silicon nitride ceramic spinal spacers for insertion between two vertebrae to help stabilize the spine, along with a metal cervical bone plate system and a metal pedicle screw system for supplemental fixation. We expect to launch the first of these product candidates by mid-2008, subject to clearance by the FDA. In 2006, we received clearance from the FDA for a silicon nitride ceramic spinal spacer, a device for insertion between two vertebrae to help stabilize the spine. We believe this is the first ceramic spinal spacer ever cleared by the FDA for human use. Although we do not plan to commercialize this spinal spacer, it will be the predicate device for our *Valeo* spinal spacers. We plan to introduce additional spinal spacers by the end of 2008, subject to regulatory clearance, including spacers that feature a bone-like structure with a solid, or cortical, load-bearing portion and a cancellous, or porous, structure that is intended to promote bone attachment for spinal fixation. In mid-2009, subject to regulatory approval, we plan to introduce cortico-cancellous spinal spacers with a surface coating designed to enhance bone attachment. Our *Valeo* family of spinal implant candidates also includes an all-ceramic, motion-preserving cervical disc, for which we anticipate commencing a clinical trial by mid-2009.

In addition, we are incorporating our silicon nitride ceramic technology into the development of our *Infinia*[™] family of total hip and knee implants. We anticipate performing clinical trials for each of our *Infinia* product candidates. We believe that our *Infinia Total Hip and Knee Implants*, if approved or cleared by the FDA, may provide competitive advantages over currently marketed total hip and knee replacement implants. We are designing our *Infinia Total Hip Implant* to offer surgeons a range of sizes and design options comparable to implants with metal and plastic components but with improved wear resistance. We anticipate commencing a clinical trial for the first of these total hip implant candidates in 2009. We also are designing our *Infinia Total Knee Implant* and anticipate commencing a clinical trial for this product candidate in 2010. We believe that its

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design will provide natural anatomic motion and offer lower wear and improved longevity compared to currently marketed knee replacement implants.

During the past two years, we have been designing and constructing our own manufacturing facility and developing processes that will provide us the ability to control the commercial-scale production of our silicon nitride ceramic implants from powder form to devices ready for sterilization and packaging. We are currently producing our lead ceramic spinal product candidates on a pilot scale in our manufacturing facility. We anticipate our facility will be fully operational for commercial-scale production by the end of 2007, which we believe would make us the only vertically integrated silicon nitride orthopedic implant manufacturer in the world.

We are a development stage company with a limited operating history and we currently have no product candidates cleared or approved for sale that we intend to commercialize. To date, our only significant revenue has been from research grants from the National Institutes of Health, or NIH, and with the exception of a small net income for the years ended December 31, 2002 and 1999, we have incurred net losses in each year since our inception. We expect our losses to continue and to increase as we build sales, marketing and distribution capabilities for our spine, hip and knee implant products, establish commercial-scale manufacturing operations, continue our research and development activities, and complete the regulatory clearance and approval process for our lead and pipeline product candidates, including the commencement of clinical trial activities for many of our pipeline product candidates. We plan to manufacture our own ceramic components while outsourcing other components. We have financed our operations to date primarily through private placements of our equity securities.

Revenue and Deferred Revenue

To date, we have not generated any revenue from the sale of any product. We do not expect to generate revenue from the sale of any product until the first half of 2008, subject to FDA clearance of our lead implant product candidates. We have received revenue from research grants from the NIH primarily related to development of ceramic implants. Revenue under grants is recognized when earned, and revenue is considered earned as the related qualified research and development expenses are incurred, up to the limit of the approved funding amounts.

Research and Development Expenses

Our research and development costs consist of engineering, product development, test-part manufacturing, testing, developing and validating our manufacturing process, and regulatory related costs. Research and development expenses also include employee compensation, employee and non-employee stock-based compensation, supplies and materials, consultant services, and travel and facilities expense related to research activities. From our inception through March 31, 2007, we have incurred approximately \$11.8 million in research and development expenses.

We expect to incur increasing research and development expenses in future periods as we conduct more research and perform clinical trials for our *Valeo Cervical Disc*, *Infinia Total Hip Implant* and *Infinia Total Knee Implant* product candidates. We cannot predict our future research and development expenses with any degree of certainty.

General and Administrative Expenses

General and administrative expenses consist primarily of compensation for executive, finance, and administrative personnel, including stock-based compensation, and facilities expenses related to general and administrative activities. Other significant expenses include travel expenses and professional fees for accounting and legal services. From our inception through March 31, 2007, we have incurred \$2.8 million in general and administrative expenses. We expect our general and administrative expenses to increase during future periods to

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support future growth and as a result of increased compensation costs related to additional personnel, as well as higher legal, accounting, insurance and other professional service costs relating to compliance with rules and regulations associated with being a publicly traded company.

Sales and Marketing Expenses

Our sales and marketing expenses consist primarily of compensation for sales and marketing personnel, including stock-based compensation, travel, consulting, marketing-related charges, and facilities expenses related to sales and marketing activities. From our inception through March 31, 2007, we have incurred \$1.2 million in sales and marketing expenses related to the establishment and development of our sales and marketing infrastructure in anticipation of our 2008 product launches. We expect our sales and marketing expenses to increase due to the costs associated with the building of sales, marketing and distribution capabilities for our spine, hip and knee implant product candidates, including the amortization of our instrumentation sets to be used by surgeons to implant our product candidates.

Arrangements with Surgeon Advisors

We have entered into consulting and development agreements with some of our advisors, including some of our surgeon advisors. We have agreed to pay some of our surgeon advisors a portion of our net after-tax profits attributable to the sale of specific spine, hip and knee implant product candidates for which the surgeon advisor provided us with consulting and related services related to the conceptualization, development, testing, clearance, approval and/or related matters involving our implant product candidates. Because more than one of our surgeon advisors contribute to our development efforts, we are obligated to pay royalties to as many as five surgeon advisors in connection with some of our product candidates. These royalty payments will be recorded as cost of goods sold once we begin commercial sales of the relevant product candidate. Pursuant to these agreements, these surgeon advisors also have been granted options to purchase shares of our common stock. Generally, these consulting and development agreements, unless earlier terminated, continue until the later of (a) ten years from the date of the agreement and (b) the expiration of the patent rights relating to the product candidates covered by the agreement. We account for equity instruments issued to our surgeon advisors in accordance with the provisions of Emerging Issues Task Force, or EITF, No. 96-18, *Accounting for Equity Instruments That Are Issued to Other Than Employees for Acquiring, or in Conjunction with Selling, Goods or Services*, using a fair-value approach marked to market during the vesting period and record the related expense as research and development expense.

Critical Accounting Policies and Significant Judgments and Estimates

Our management's discussion and analysis of our financial condition and results of operations are based on our financial statements and notes, which have been prepared in accordance with U.S. generally accepted accounting principles. The preparation of these financial statements requires us to make estimates and assumptions that affect the reported amounts of assets, liabilities, convertible preferred stock, and stockholders' equity (deficit) and the disclosure of contingent liabilities at the date of the financial statements, as well as the reported revenue and expenses during the reporting periods. We base our estimates on historical experience and on various other assumptions that we believe to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets, liabilities, convertible preferred stock, and stockholders' equity (deficit) that are not readily apparent from other sources. We evaluate our estimates and judgments on an ongoing basis. Actual results may differ materially from these estimates under different assumptions or conditions.

While our significant accounting policies are more fully described in Note 1 to our financial statements included elsewhere in this prospectus, we believe that the following accounting policies and estimates are most critical to a full understanding and evaluation of our reported financial results.

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Stock-Based Compensation

Prior to January 1, 2006, we accounted for stock-based employee compensation arrangements using the intrinsic value method in accordance with the recognition and measurement provisions of Accounting Principles Board Opinion, or APB, No. 25, *Accounting for Stock Issued to Employees*, and related interpretations, including the Financial Accounting Standards Board Interpretation, or FIN, No. 44, *Accounting for Certain Transactions Involving Stock Compensation, an Interpretation of APB Opinion No. 25*, as permitted by Statement of Financial Accounting Standards, or SFAS, No. 123, *Accounting for Stock-Based Compensation*. In accordance with APB No. 25, stock-based compensation was calculated using the intrinsic value method and represents the difference between the deemed per share market price of our common stock and the per share exercise price of the stock option. Based on this method, our compensation expense under APB No. 25 was zero.

Effective January 1, 2006, we adopted the provisions of SFAS No. 123R, *Share-Based Payments*. In March 2005, the Securities and Exchange Commission, or SEC, issued Staff Accounting Bulletin, or SAB, No. 107 relating to SFAS No. 123R. We have applied the provisions of SAB No. 107 in our adoption of SFAS No. 123R. Under SFAS No. 123R, stock-based awards, including stock options, are recorded at fair value as of the grant date and recognized to expense over the employee's requisite service period (generally the vesting period), which we have elected to amortize on a straight-line basis. The pro forma disclosures previously permitted under SFAS No. 123 are no longer an alternative to financial statement recognition. We are no longer able to apply the minimum value method and instead must calculate the fair value of our employee stock options using an estimated volatility rate. We adopted the provisions of SFAS No. 123R using the prospective transition method. Under the prospective transition method, beginning January 1, 2006, compensation cost recognized includes: (a) compensation cost for all share-based payments granted prior to, but not yet vested as of December 31, 2005, based on the intrinsic value in accordance with the provisions of APB No. 25, and (b) compensation cost for all share-based payments granted subsequent to December 31, 2005, based on the grant-date fair value estimated in accordance with the provisions of SFAS No. 123R. All awards granted, modified, or settled after the date of adoption are accounted for using the measurement, recognition, and attribution provisions of SFAS No. 123R.

Stock-based compensation expense, which is a non-cash charge, results from the issuance of options under SFAS No. 123R, based on the fair value of the stock options. During the year ended December 31, 2006 and the first three months of 2007, we granted options to employees and members of our board of directors to purchase a total of 630,400 shares of common stock, at an exercise price of \$1.00 per share.

Our board of directors, with the assistance of management and LECG, LLC, or LECG, independent consultants, performed a contemporaneous fair value analysis for the value of our common stock as of October 31, 2006 and a retrospective fair value analyses for the valuation of our common stock as of December 31, 2005 and December 31, 2006. For grants made on dates for which there was no valuation performed by LECG to utilize in setting the exercise price of our common stock, and given the absence of an active market for our common stock, our board of directors determined the fair value of our common stock on the date of grant based on several factors, including:

- important developments in our operations;
- equity market conditions affecting comparable public companies;
- the likelihood of achieving a liquidity event for the shares of common stock, such as an initial public offering or an acquisition of the company, given prevailing market conditions;
- the prices at which we issued preferred stock in February 2006 and the rights and privileges associated with those preferred stock issuances; and
- the illiquidity of our common stock as a private company.

In connection with the preparation of the financial statements included elsewhere in this prospectus, we utilized the results of LECG's contemporaneous valuation as of October 31, 2006 and independent retrospective valuations as of December 31, 2005 and December 31, 2006 to determine the estimated fair value of our common stock. The valuations used three valuation methods and weighted the results of these methods to determine the

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fair value of our total equity on the valuation dates. These three methods included a market approach using guideline public companies, a market approach using investment banker valuations and an income approach. The calculated total equity was then used to calculate the fair value per common share of our stock based on the option value method. The valuations also included a discount for lack of marketability given that there is no public market for our common stock.

The market approach using guideline public companies provides an estimate of fair value based on the value of similar public enterprises. These valuations included examination of the value of comparable companies in the orthopedic implant industry and other high growth med-tech companies. The market approach, using investment banker valuations, calculated the value of our equity based on estimated valuations provided by our investment bankers. The income approach utilizes the future cash flows expected to be generated and discounts the result to their present value using a rate of return that reflects the relative risk of the investment, as well as the time value of money.

The October 31, 2006 contemporaneous valuation and the December 31, 2005 and 2006 retrospective valuations weighted the calculated results of the above methods using a 75% weighting for the income approach, a 10% weighting for the market approach using guideline public companies and a 15% weighting for the market value using investment banker valuations. The weightings used in the overall valuation reflect management's expectations based on anticipated cash flows, the likelihood of a near term public offering of our common stock and the ability to achieve liquidity in the public market. Because the income approach utilizes management's perceived risks and opportunities that are specific to our company, this method received more weighting than the market approaches.

For periods between valuation dates, we reassessed the value of our common stock taking into account a number of factors including, among others, the proximity of the grant to the independent valuations and internal milestones that we achieved in the period between the two valuation dates.

Milestones affecting reassessed value between December 31, 2005 (our retrospective valuation) and February 12, 2006

In reassessing fair value per share between December 31, 2005, which, based on LECG's retrospective valuation, was \$0.72, and February 12, 2006, the date of our option grant at an estimated fair value per share of \$1.00, we assigned an incremental value based on proximity of the grant to the retrospective valuation and the estimated value created by the interim milestones achieved during the period from December 31, 2005 and February 2006. Specifically, we considered the following additional milestones in connection with the grant:

- The anticipated FDA clearance of the *Arx* predicate device, our first ceramic spinal spacer, for which clearance was received in February 2006.
- Receipt of a patent in February 2006 related to our *Valeo Cervical Disc*.
- The sale in February 2006 of 8,400,000 shares of our Series C convertible preferred stock at \$2.00 per share for gross proceeds of \$16.8 million.
- The fact that our common stock does not share the rights and preferences inherent in our preferred stock, including the liquidation preferences and dividend rights.

As a result of these factors, we assessed the value of \$1.00 assigned to our February 2006 option grants to be a reasonable estimate of the then fair value.

Milestones affecting reassessed value between October 31, 2006 (our contemporaneous valuation), December 31, 2006 (our retrospective valuation) and January 5, 2007

The contemporaneous valuation that we received as of October 2006 assessed the value of common shares at \$0.99 per share and the December 31, 2006 retrospective valuation assessed fair value at \$1.06 per share. The

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estimated fair value that we assigned to the common stock in December 2006 was \$1.00 per share. No significant milestones occurred during the interim period between the date of the retrospective valuation (December 31, 2006) and the option grant in January 2007 that would significantly change the estimated fair value used for the January 2007 grant other than continued development of our product candidates.

Events occurring subsequent to January 5, 2007

In March 2007, our board of directors received a report from our legal counsel that served to validate and clarify our intellectual property position related to the patents that we have directed to our products and technology. Based on the results of this report, we re-initiated discussions with investment bankers regarding our valuations and initial public offering prospects. Management believes that these events created a significant increase in the valuation of our company and our initial public offering prospects. As a result of these events, we also determined to seek additional financing which resulted in our issuance of Series D convertible preferred stock at \$3.00 per share in April 2007. The Series D convertible preferred stock (as well as each of our other series of convertible preferred stock) included the following rights and privileges which are senior to our common stock:

- The Series D convertible preferred stock is entitled to receive noncumulative dividends in preference to any dividend on common stock if declared by our board of directors.
- The Series D convertible preferred stock is entitled to a liquidation preference equal to the original issuance price of such stock, or \$3.00 per share.
- The Series D convertible preferred stock is convertible into our common stock at the option of the preferred stockholder. The convertible preferred stock will be automatically converted into common stock at the completion of an initial public offering.
- The holders of Series D convertible preferred stock are entitled to vote on all matters with the holders of the common stock based on the number of shares of common stock into which the preferred stock is convertible.
- Since holders of the convertible preferred stock hold the majority of the voting shares in the aggregate, they substantially control decisions related to significant corporate matters requiring a vote of the shareholders.

We granted no options between January 5, 2007 and May 3, 2007.

On May 4, 2007, we granted 491,300 options to employees and directors at \$2.40 per share based on an additional contemporaneous valuation that we received from LECG. In connection with this valuation, we assessed the weightings placed on the valuation methods and increased the weightings of the market value using investment banker valuations based on the increased likelihood of a near-term initial public offering. Accordingly, this contemporaneous valuation weighted the calculated results of the three methods using a 50% weighting for the income approach, a 10% weighting for the market approach using guideline public companies and a 40% weighting for the market value using investment banker valuations. In this valuation, we also reduced the discount for lack of marketability due to the prospects for a near term liquidity event.

Based upon the assessments discussed above, we determined the estimated fair value of common stock related to options granted in 2006 and 2007 to be a reasonable estimate of the fair value. We took into account the factors identified above in determining the estimated fair value of the common stock as of each grant date. Information on employee and director stock options granted during 2006 and the first six months of 2007 is summarized as follows:

<u>Grant Date</u>	<u>Number of Shares Granted</u>	<u>Exercise Price per Share</u>	<u>Reassessed Fair Value Per Share</u>	<u>Intrinsic Value</u>
2/12/2006	193,200	\$ 1.00	\$ 1.00	\$ —
12/11/2006	372,200	1.00	1.00	—
1/5/2007	65,000	1.00	1.06	0.06
5/4/2007	491,300	2.40	—	—

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Information on non-employee stock options granted in 2006 and the first six months of 2007 is summarized as follows:

<u>Grant Date</u>	<u>Number of Shares Granted</u>	<u>Exercise Price per Share</u>	<u>Reassessed Fair Value Per Share</u>	<u>Intrinsic Value</u>
2/12/2006	38,000	\$ 1.00	\$ 1.00	\$ —
12/11/2006	147,000	1.00	1.00	—

Based on an assumed initial public offering price of \$ _____ per share, the intrinsic value of the options outstanding at March 31, 2006 was \$ _____, of which \$ _____ related to vested options and \$ _____ related to unvested options.

The fair value of each employee option grant in the year ended December 31, 2006 and the three months ended March 31, 2006 and 2007 was estimated on the date of grant using the Black-Scholes valuation model with the following assumptions.

	<u>Year ended December 31, 2006</u>	<u>Three months ended March 31, 2006</u> (unaudited)	
		<u>2006</u>	<u>2007</u>
Weighted average risk-free interest rate	4.53%	4.58%	4.67%
Weighted-average expected life (in years)	6.25	6.25	5.00
Expected dividend yield	0%	0%	0%
Weighted average expected volatility	91%	101%	81%
Weighted-average estimated fair value of employee options	\$0.78	\$0.82	\$0.73

Our computation of expected volatility for the year ended December 31, 2006 and the three months ended March 31, 2006 and 2007 is based on an average of the historical volatility of a peer-group of similar companies. Our computation of expected life utilizes the simplified method in accordance with SAB No. 107. The risk-free interest rate for periods within the contractual life of the option is based on the U.S. Treasury yield curve in effect at the time of grant. We recognize stock-based compensation expense for the fair values of these awards on a straight-line basis over the requisite service period of each of these awards.

As of December 31, 2006 and March 31, 2007, total compensation related to unvested options not yet recognized in the financial statements was approximately \$377,000 and \$351,000, respectively, and the weighted average period over which it is expected to be recognized is approximately 3.66 and 3.45 years, respectively.

As a result of adopting SFAS No. 123R on January 1, 2006, the net loss for the year ended December 31, 2006 and three months ended March 31, 2006 and 2007 was higher by approximately \$39,000, \$5,000 and \$28,000, respectively, than if we had continued to account for stock-based compensation under APB No. 25. Basic and diluted loss per share applicable to common stockholders for the periods presented would be the same as if we had continued to account for stock-based compensation under APB No. 25.

We account for equity instruments issued to non-employees in accordance with the provisions of Emerging Issues Task Force, or EITF, No. 96-18, *Accounting for Equity Instruments That Are Issued to Other Than Employees for Acquiring, or in Conjunction with Selling, Goods or Services*, using a fair value approach. The equity instruments, consisting of stock options and warrants granted to lenders and consultants, are valued using the Black-Scholes valuation model. The measurement of stock-based compensation is subject to periodic adjustments as the underlying equity instruments vest and are recognized as an expense over the term of the related financing or the period over which services are received.

We valued the non-employee stock options granted during the years ended December 31, 2004, 2005 and 2006 and the three month period ended March 31, 2007 using the Black-Scholes valuation model, using a

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volatility rate of between 83% and 101%, a remaining contractual life of between eight and ten years, an expected dividend yield of 0% and a risk-free interest rate ranging from 3.83% to 4.36%. We granted 70,000, 82,500 and 185,000 options to consultants for services in the years ended December 31, 2004, 2005 and 2006, respectively. No options were granted to consultants during the three months ended March 31, 2007. The exercise price of the consultant stock options ranges from \$0.25 to \$1.00 per share. The estimated fair value of options granted to consultants that vested during the years ended December 31, 2004, 2005 and 2006 and the three months ended March 31, 2006 and 2007 was \$18,000, \$44,000, \$92,000, \$23,000 and \$49,000, respectively, and was charged to research and development expense. The amount of the stock compensation expense is subject to management's estimate of the fair value of the underlying common stock absent a public market for our common stock.

Income Taxes

We account for income taxes under the liability method in accordance with the provision of SFAS No. 109, *Accounting for Income Taxes* ("SFAS 109"). SFAS 109 requires recognition of deferred taxes to provide for temporary differences between financial reporting and the tax basis of assets and liabilities. Deferred taxes are measured using enacted tax rates expected to be in effect in a year in which the basis difference is expected to reverse. We continue to record a valuation allowance for the full amount of deferred assets, which would otherwise be recorded for tax benefits relating to operating loss and tax credit carryforwards, since realization of such deferred tax assets cannot be determined to be more likely than not. Utilization of the net operating loss carryforwards may be subject to a substantial annual limitation due to the ownership change limitations provided by the Internal Revenue Code of 1986, as amended, and similar state provisions. The annual limitation may result in the expiration of the net operating loss carryforwards before utilization.

In July 2006, the Financial Accounting Standards Board, or FASB, issued FASB Interpretation No. 48, *Accounting for Uncertainty in Income Taxes* ("FIN 48"). FIN 48 is an interpretation of FASB Statement No. 109, *Accounting for Income Taxes*. FIN 48 seeks to reduce the diversity in practice associated with certain aspects of measurement and recognition in accounting for income taxes. In addition, FIN 48 provides guidance on derecognition, classification, interest and penalties, and accounting in interim periods and requires expanded disclosure with respect to the uncertainty in income taxes. We became subject to the provisions of FIN 48 as of January 1, 2007. We believe that our income tax filing positions and deductions will be sustained on audit and do not anticipate any adjustments that will result in a material change to our financial position. Therefore, no reserves for uncertain income tax positions have been recorded pursuant to FIN 48. In addition, we did not record a cumulative effect adjustment related to the adoption of FIN 48.

Our policy for recording interest and penalties associated with audits is to record such items as a component of income before taxes. Penalties and interest paid or received are recorded in interest expense or interest income, respectively. During the three months ended March 31, 2007, we did not record any interest income, interest expense, or penalties related to the settlement of audits for prior periods. Tax years 2003 through 2006 are subject to examination by the United States federal tax authorities.

Estimation of Fair Value of Warrants to Purchase Convertible Preferred Stock

In connection with our preferred stock offerings, the placement agent received warrants to purchase convertible preferred stock. These warrants are fully exercisable after one year from issuance and expire after seven years. The exercise price of these warrants is equal to 110% of the offering price of the underlying convertible preferred stock. On the closing of an initial public offering, these warrants will convert into warrants to purchase shares of common stock at the then applicable conversion rate for the related preferred stock (currently 1:1).

We have accounted for these warrants under the provisions of Financial Accounting Standards Board Staff Position ("FSP") No. 150-5, *Issuer's Accounting under Statement No. 150 for Freestanding Warrants and Other*

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Similar Instruments on Shares that Are Redeemable, an interpretation of SFAS No. 150, *Accounting for Certain Financial Instruments with Characteristics of Both Liabilities and Equity*. Pursuant to FSP 150-5, freestanding warrants for shares that are either puttable or warrants for shares that are redeemable are classified as liabilities on the balance sheet at fair value. In connection with the grant of the warrants to purchase Series A and Series B convertible preferred stock in 2004 and Series C convertible preferred stock in 2006, the Company recorded the initial fair values of the warrants of \$413,080, \$159,831 and \$928,625, respectively, as a preferred stock warrant liability. At the end of each reporting period, changes in fair value during the period are recorded as a component of other income or expense.

In order to estimate the liability associated with these warrants, management utilized an independent retrospective valuation performed by LECG as of each reporting date. The valuations used a market approach and an income approach to determine the fair value of our common stock into which the preferred stock is convertible on the valuation dates. The market approach bases fair value on what similar enterprises or comparable transactions indicate value to be. These valuations included examination of the value of comparable companies in the orthopedic implant industry and other high growth med-tech companies.

The fair value of these warrants was determined using the Black-Scholes valuation model using the following assumptions:

	<u>Year ended December 31,</u>			<u>Three months</u>	
	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>ended March 31,</u>	<u>2007</u>
Weighted-average risk-free interest rate	3.85%	4.36%	4.70%	4.70%	4.55%
Weighted-average remaining life (in years)	6.24	5.24	4.85	4.85	4.60
Expected dividend yield	0%	0%	0%	0%	0%
Weighted-average expected volatility	108%	94%	75%	75%	70%

For the years ended December 31, 2004, 2005 and 2006, and for the three month periods ended March 31, 2006 and 2007, we recorded approximately \$254,089, \$577,000, \$290,925, \$72,731, and \$3,681,413, respectively, as other expense for the increase in fair value of all preferred stock warrants. We will continue to adjust the liabilities for changes in fair value until the earlier of the exercise of the warrants to purchase shares of convertible preferred stock or the completion of a liquidation event, including the completion of an initial public offering.

Upon the closing of this offering, all outstanding warrants to purchase shares of our preferred stock will become warrants to purchase shares of our common stock and, as a result, will no longer be subject to FSP 150-5. The then-current aggregate fair value of these warrants, after a final remeasurement of fair value, will be reclassified from liabilities to additional paid-in capital, a component of stockholders' equity, and we will cease to record any related periodic fair value adjustments.

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Results of Operations

Comparison of Three Months Ended March 31, 2006 and 2007

	<u>Three months ended March 31,</u>		<u>Dollar</u> <u>Change</u>	<u>%</u> <u>Change</u>
	<u>2006</u>	<u>2007</u>		
	(unaudited)			
Grant revenue	\$ —	\$ —	\$ —	*
Operating expenses:				
Research and development	1,100,125	1,479,340	379,215	34%
General and administrative	184,425	405,380	220,955	120%
Sales and marketing	111,038	125,740	14,702	13%
Total operating expenses	<u>1,395,588</u>	<u>2,010,460</u>	<u>614,872</u>	44%
Loss from operations	(1,395,588)	(2,010,460)	(614,872)	44%
Other income (expense):				
Interest income	150,487	166,870	16,383	11%
Interest expense	—	(37,722)	(37,722)	*
Change in value of preferred stock warrant liability	(72,731)	(3,681,413)	(3,608,682)	4,962%
Total other income (expense)	<u>77,756</u>	<u>(3,552,265)</u>	<u>(3,630,021)</u>	4,668%
Net loss	<u>\$(1,317,832)</u>	<u>\$(5,562,725)</u>	<u>\$(4,244,893)</u>	322%

* Not meaningful.

Grant Revenue. We recorded no grant revenue in either period due to our internal product development projects in 2006 and 2007, which were not related to our existing grants. We were awarded an \$800,000 NIH grant in late 2006, for which we expect to begin recognizing revenue in the second half of 2007 as we provide services under the related grant contract.

Research and Development Expenses. The increase in research and development expense in the three months ended March 31, 2007 compared to the same period in 2006 was due primarily to an increase in salaries and benefits of approximately \$130,000, including the hiring of one additional person, an increase of approximately \$180,000 from depreciation due to additional equipment in our manufacturing facility, and an increase in rent of \$90,000 for our new manufacturing facility.

General and Administrative Expenses. The increase in general and administrative expenses for the three months ended March 31, 2007 compared to the same period in 2006 was due primarily to an additional \$215,000 in legal fees incurred in the three months ended March 31, 2007 in connection with a review of our intellectual property position.

Sales and Marketing Expenses. The increase in sales and marketing expenses in the three months ended March 31, 2007 compared to the same period in 2006 was due primarily to consulting, marketing studies and trade show fees incurred during the three months ended March 31, 2007.

Interest Income. The increase in interest income in the three months ended March 31, 2007 compared to the same period in 2006 was due primarily to higher average interest rates in 2007.

Interest expense. Interest expense in the three months ended March 31, 2007 was related to our 42-month term loan which we entered into in January 2007 upon the conversion of our equipment financing arrangement, which allowed for advances to us for equipment purchased during 2006 and which we utilized during the second half of 2006.

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Change in Value of Preferred Stock Warrant Liability. The increase in the change in value of preferred stock warrant liability for the three months ended March 31, 2007 compared to the same period in 2006 was due to valuation increases in our common stock into which the preferred stock is convertible as well as a greater number of warrants outstanding during the three months ended March 31, 2007 as a result of our Series C convertible preferred stock offering that closed on February 24, 2006. In April 2007, we issued additional warrants to purchase 253,290 shares of preferred stock to our placement agent and its designee in connection with our Series D convertible preferred stock offering. See Note 7 to our financial statements included elsewhere in this prospectus.

Comparison of Years Ended December 31, 2004, 2005 and 2006

	<u>Years ended December 31,</u>		<u>Dollar</u>	<u>%</u>	<u>Years ended December 31,</u>		<u>Dollar</u>	<u>%</u>
	<u>2004</u>	<u>2005</u>			<u>2005</u>	<u>2006</u>		
Grant revenue	\$ 208,252	\$ 69,207	\$ (139,045)	(67)%	\$ 69,207	\$ 94,850	\$ 25,643	37%
Operating expenses:								
Research and development	1,419,293	2,966,991	1,547,698	109%	2,966,991	4,974,380	2,007,389	68%
General and administrative	398,208	576,295	178,087	45%	576,295	1,113,500	537,205	93%
Sales and marketing	—	416,847	416,847	*	416,847	607,538	190,691	46%
Total operating expenses	<u>1,817,501</u>	<u>3,960,133</u>	<u>2,142,632</u>	118%	<u>3,960,133</u>	<u>6,695,418</u>	<u>2,735,285</u>	69%
Loss from operations	(1,609,249)	(3,890,926)	(2,281,677)	142%	(3,890,926)	(6,600,568)	(2,709,642)	70%
Other income (expense):								
Interest income	107,211	248,838	141,627	132%	248,838	805,437	556,599	224%
Interest expense	—	—	—	*	—	(77,498)	(77,498)	*
Change in value of preferred stock warrant liability	(254,089)	(577,000)	(322,911)	127%	(577,000)	(290,925)	286,075	(50)%
Total other income	<u>(146,878)</u>	<u>(328,162)</u>	<u>(181,284)</u>	123%	<u>(328,162)</u>	<u>437,014</u>	<u>765,176</u>	(233)%
Net loss	<u><u>\$ (1,756,127)</u></u>	<u><u>\$ (4,219,088)</u></u>	<u><u>\$ (2,462,961)</u></u>	140%	<u><u>\$ (4,219,088)</u></u>	<u><u>\$ (6,163,554)</u></u>	<u><u>\$ (1,944,466)</u></u>	46%

* Not meaningful.

Grant Revenue. The decreases in 2005 and 2006 grant revenue compared to the 2004 amount were due to our performing more NIH contract work in 2004 and our incurring fewer qualifying expenditures in 2005 and 2006 related to our NIH contracts as we refocused our efforts on internal product development projects.

Research and Development Expenses. The increase in research and development expenses in 2006 compared to 2005 was due primarily to an increase of approximately \$800,000 for producing test parts and testing of our ceramics materials and producing prototypes and related instrumentation. We also experienced an increase of approximately \$400,000 related to increases in our personnel costs, including the hiring of three additional employees, an increase of approximately \$190,000 for additional rent and \$340,000 of additional depreciation related to our new manufacturing facility and related equipment. The increase in research and development expenses in 2005 compared to 2004 was primarily attributable to an increase of \$800,000 related to increases in personnel costs, including the hiring of nine additional employees, and \$370,000 related to general lab supplies, product testing and validation costs. We also had an additional \$140,000 of depreciation expenses in 2005 compared to 2004 due to the purchase of additional research equipment.

General and Administrative Expenses. The increases in general and administrative expenses in 2006 compared to 2005 was due primarily to \$370,000 related to increases in personnel costs, including the hiring of three employees and \$130,000 in legal fees in connection with a review of our intellectual property position. The

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increase in general and administrative expenses in 2005 compared to 2004 was due primarily to an increase in legal costs of approximately \$40,000 related to filing and protecting our patents, and an additional \$70,000 in personnel costs related to the timing of employment commencement dates in 2004.

Sales and Marketing Expenses. In 2005, we commenced hiring of sales and marketing personnel to assist in the development of our product commercialization strategy. The increase in sales and marketing expense in 2006 compared with 2005 was due to an increase in personnel costs, including the hiring of one additional employee, as well as an increase in external market research and trade shows in preparation for our anticipated product candidate launches in 2008.

Interest Income. The increases in interest income in 2006 compared to 2005 and in 2005 compared to 2004 were due primarily to the timing of our receipt of the proceeds of our convertible preferred stock financings, which we invested in interest-bearing investments. These increases were also partially due to general increases in average interest rates in 2006 compared to 2005 and in 2005 compared to 2004.

Interest Expense. Interest expense in 2006 was for interest charges related to an equipment financing arrangement which we utilized during the second half of 2006 and under which we borrowed a total of \$1.6 million. Interest on this financing arrangement was 10.25%. In January 2007, we converted the outstanding balance to a 42-month term loan bearing interest at the fixed rate of 9.09%.

Change in Value of Preferred Stock Warrant Liability. The increase in the change in value of preferred stock warrant liability in 2006 compared to 2005 and in 2005 compared to 2004 was due to valuation increases in our common stock as well as a greater number of warrants outstanding during 2006 compared to 2005 and in 2005 compared to 2004 as a result of our Series A preferred stock offering in January 2004, our Series B preferred stock offering in November 2004 and our Series C preferred stock offering in February 2006. See Note 7 to our financial statements included elsewhere in this prospectus.

Liquidity and Capital Resources

We have incurred a cumulative loss since our inception in December 1996 and as of March 31, 2007 we had a deficit accumulated during the development stage of \$18.2 million. We have funded our operations to date principally from private placements of convertible preferred stock, raising net proceeds totaling \$27.9 million through March 31, 2007. As of March 31, 2007, we had approximately \$10.3 million in cash, cash equivalents and marketable securities included in current assets. We invest our available cash balances in bank deposits, money market funds, U.S. government securities, auction rate securities, and other investment grade debt securities that have strong credit ratings.

In April 2007, we issued 4,456,500 shares of our Series D convertible preferred stock at \$3.00 per share, and received net proceeds of approximately \$12.4 million. Dividends, liquidation preferences, conversion and voting rights of our Series D convertible preferred stock are substantially similar to those of Series A, B and C convertible preferred stock. In conjunction with this offering, the placement agent received warrants to purchase 253,290 shares of Series D convertible preferred stock at an exercise price of \$3.30 per share. These warrants are fully exercisable at the earlier of one year after issuance or the completion of this offering and expire after seven years. The estimated fair value of these warrants at the time of issuance was \$450,000. In connection with the offering of our Series D convertible preferred stock, we also paid our placement agent \$758,870 as commission and \$100,000 for expenses.

Net cash used in operating activities was \$1.3 million, \$3.5 million and \$5.5 million for the years ended December 31, 2004, 2005 and 2006, respectively, and \$761,000 and \$2.4 million for the three months ended March 31, 2006 and 2007, respectively. The net cash used in each of these periods primarily reflects internal personnel costs associated with our research and development programs and infrastructure costs supporting our research and development activities. Included in net cash used in operating activities are non-cash charges related to revaluations of our preferred stock warrant liability, depreciation and amortization expense, and other net

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changes in assets and liabilities affecting cash, including accounts payable and accrued liabilities that are primarily dependent upon the timing of our payments to our suppliers, vendors and employees.

Net cash provided by (used in) investing activities was (\$9.3) million, \$2.6 million and (\$10.8) million for the years ended December 31, 2004, 2005 and 2006, respectively, and \$(14.1) million, and \$2.8 million for the three months ended March 31, 2006 and 2007, respectively. Net cash provided by (used in) investing activities in each of these periods reflects primarily the net purchases and maturities of marketable securities and purchases of property and equipment. Purchases of property and equipment increased in 2006 to \$3.2 million compared to \$854,000 in 2005 as a result of equipment purchasing and leasehold improvements associated with our new manufacturing facility.

Net cash provided by (used in) financing activities was \$7.5 million, \$17,000 and \$16.8 million for the years ended December 31, 2004, 2005 and 2006, respectively, and \$15.2 million and (\$66,000) for the three months ended March 31, 2006 and 2007, respectively. Net cash provided by (used in) financing activities was attributable primarily to the issuance of shares of our Series A convertible preferred stock in January 2004, the issuance of shares of our Series B convertible preferred stock in November 2004, and the issuance of shares of our Series C convertible preferred stock in February 2006. In addition, we borrowed \$1.6 million under our equipment financing arrangement during 2006 which was converted in early 2007 to a 42-month term loan. We made payments of \$66,000 on the loan during the three months ended March 31, 2007.

We do not expect to generate any product revenue until the first half of 2008 at the earliest. We will not generate any domestic product revenue unless and until we obtain FDA clearance or approval to market our lead implant product candidates. We believe that our cash, cash equivalents and marketable securities, together with interest income we earn on these investments, will be sufficient to meet our anticipated cash requirements through the second quarter of 2008. We believe that the net proceeds from our initial public offering, together with our cash, cash equivalents and marketable securities, together with interest income we earn on these investments, will be sufficient to meet our anticipated cash requirements through the end of 2009. If our available cash, cash equivalents, marketable securities and net proceeds from our initial public offering are insufficient to satisfy our liquidity requirements, or if we develop additional product candidates or submit additional applications for clearance or approval of our product candidates, we may seek to sell additional equity or debt securities or arrange for a credit facility. The sale of additional equity and debt securities may result in additional dilution to our shareholders. If we raise additional funds through the issuance of equity or debt securities, these securities could have rights and preferences senior to those of our common stock and could contain covenants that would restrict our operations. We may require additional capital beyond our currently forecasted amounts. Any such required additional capital may not be available on reasonable terms, if at all. If we are unable to obtain additional financing, we may be required to reduce the scope of, delay, or eliminate some or all of our planned research, product development and commercialization activities, which could materially harm our business.

Our forecast of the period of time through which our financial resources will be adequate to support our operations and the costs to complete development of product candidates are forward-looking statements and involve risks and uncertainties, and actual results could vary materially and negatively as a result of a number of factors, including the factors discussed in the "Risk Factors" section of this prospectus. We have based these estimates on assumptions that may prove to be wrong, and we could utilize our available capital resources sooner than we currently expect.

Because of the numerous risks and uncertainties associated with the development of medical devices, we are unable to estimate the exact amounts of capital outlays and operating expenditures necessary to complete ongoing clinical trials and successfully deliver a commercial product to market. Our future funding requirements will depend on many factors, including but not limited to:

- the timing of regulatory clearances or approvals;
- the scope, rate of progress and cost of our research and development activities;

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- the scope, rate of progress and cost of any clinical trials we are required to conduct, and the results of these clinical trials;
- the cost and timing of establishing sales, marketing and distribution capabilities;
- the rate of market acceptance of our product candidates;
- the cost of filing and prosecuting patent applications and defending and enforcing our patents and other intellectual property rights;
- the cost of defending, in litigation or otherwise, any claims that we infringe third-party patents or other third-party intellectual property rights;
- the cost of defending other litigation or disputes with third parties;
- the cost of establishing clinical and commercial supplies of our current pipeline of product candidates and any product candidates that we may develop;
- the development of an efficient manufacturing process;
- the effect of competing products and market developments; and
- any revenue generated by sales of our future product candidates.

Future capital requirements will also depend on the extent to which we acquire or invest in businesses, products and technologies, although we currently have no commitments or agreements relating to any of these types of transactions.

Contractual Obligations

In May 2006, we entered into an equipment financing arrangement which allowed for advances to us for equipment purchased during 2006. These amounts are collateralized by certain of our qualifying manufacturing and lab equipment and \$750,000 which is invested in an interest bearing escrow account and is reflected on the accompanying balance sheet as restricted cash. If the balance of our cash and marketable securities becomes equal to or less than the then remaining balance of the loan at any time during the term, the bank has the right to exercise a contingent pledge with respect to all remaining cash and marketable securities.

As of December 31, 2006, \$1,621,898 had been advanced under this financing arrangement. In January 2007, this amount was refinanced into long-term debt with a fixed interest rate of 9.09% and with a 42-month term. This loan does not permit the transfer of more than 25% of the ownership interests in us. We are currently seeking a waiver or an amendment that would eliminate application of this loan provision to us.

We are committed to making future cash payments on operating leases. We have not guaranteed the debt of any other party. Future minimum payments under all noncancelable lease obligations and payments under our long-term debt agreement are as follows as of March 31, 2007:

<u>Year ended December 31,</u>	<u>Operating Leases</u>	<u>Long-term Debt</u>
2007 (remainder of year)	\$ 339,875	\$ 407,193
2008	463,392	542,922
2009	400,991	542,922
2010	263,154	316,705
2011	91,605	—
	<u>\$1,559,017</u>	<u>1,809,742</u>
Less amounts representing interest		<u>(253,501)</u>
		<u>\$1,556,241</u>

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The information above reflects only payment obligations that are fixed and determinable. Our commitments for operating leases primarily relate to the lease for our corporate headquarters and manufacturing facility in Salt Lake City, Utah.

In December 2006, we entered into an agreement to license patent rights directed to a manufacturing process for porous ceramic for use in our product candidates that incorporate our *C³C* technology. At the time this agreement was signed, we paid \$50,000. During February 2007, we paid an additional \$100,000 upon the transfer of technology to us. We are obligated to pay an additional \$100,000 upon FDA clearance of the first product in the United States which utilizes the licensed technology. We are also obligated to pay future royalties on net sales of products which utilize this technology.

We have entered into consulting and development agreements with some of our advisors, including some of our surgeon advisors. We have agreed to pay some of our surgeon advisors a portion of our net after-tax profits attributable to the sale of specific spine, hip and knee implant product candidates for which the surgeon advisor provided us with consulting and related services related to the conceptualization, development, testing, clearance, approval and/or related matters involving our implant product candidates. Because more than one of our surgeon advisors contribute to our development efforts, we are obligated to pay royalties to as many as five surgeon advisors in connection with some of our product candidates. Pursuant to these agreements, these surgeon advisors also have been granted options to purchase shares of our common stock. Generally, these consulting and development agreements, unless earlier terminated, continue until the later of (a) ten years from the date of the agreement and (b) the expiration of the patent rights relating to the product candidates covered by the agreement.

We have executed agreements with some of our executive officers which, upon the occurrence of specified events related to a change of control, require payments to be made to the executives equal to two to three times his annual salary and accelerate the vesting of then outstanding stock options held by the executive.

Effective through February 2009, in the event of a future acquisition of our capital stock, merger, tender offer, recapitalization, or asset sale prior to our initial public offering resulting in a change in control, as defined in the engagement letter with the placement agent for our offering of Series C convertible preferred stock, the placement agent will have the right to receive up to \$2.5 million.

Off-Balance Sheet Arrangements

Since inception, we have not engaged in any off-balance sheet activities, including the use of structured finance, special purpose entities or variable interest entities.

Quantitative and Qualitative Disclosures About Market Risk

Our exposure to market risk is confined to our cash, cash equivalents and marketable securities, all of which have maturities of less than one year. The primary objective of our investment activities is to preserve our capital for the purpose of funding operations while at the same time maximizing the income we receive from our investments without significantly increasing risk. To achieve these objectives, our investment policy allows us to maintain a portfolio of cash equivalents and investments in investment grade marketable securities, including commercial paper, option rate preferred securities, money market funds and corporate debt securities and U.S. government securities. As of December 31, 2006 our marketable securities balance was approximately \$11.8 million, which consisted of auction rate securities with rates that reset every 28 days. As of December 31, 2006, our long-term debt balance was approximately \$1.6 million. The long-term debt bears interest at a fixed rate of 9.09% and has a term of 42 months. On a net basis, we believe that there is no material exposure to interest rate risk.

BUSINESS

Overview

We are an orthopedic implants company focused on using our silicon nitride ceramic technologies to develop, manufacture and commercialize a broad range of advanced, high-performance spine and joint implants. We have developed a formulation of silicon nitride which we believe has the strength, toughness and wear resistance necessary to overcome the limitations of currently available orthopedic implants. Upon introduction to market, we believe our implants will represent the first commercial use of silicon nitride ceramics in orthopedic applications and will have the potential to provide an improved combination of characteristics, including greater strength and resistance to fracture, improved resistance to wear, greater ability to promote bone attachment and better compatibility with surgical and diagnostic imaging. Based on these potential advantages, we believe our silicon nitride product candidates may achieve better long-term clinical outcomes with enhanced durability, longevity, biocompatibility and patient fit. While we have not received regulatory clearance or approval for any of our product candidates that we intend to commercialize, in the second half of 2007 we expect to submit a premarket notification to the U.S. Food and Drug Administration, or the FDA, seeking regulatory clearance of our first commercial product candidate. Our goal is to establish our silicon nitride implants as new standards of care for the largest and fastest growing orthopedic implant markets: the spine, hip and knee markets.

Our lead product candidates are our *Valeo*[™] family of spinal implants. Our *Valeo* spinal fixation implants are intended to restore and maintain the alignment of vertebrae in the cervical, or neck, region and lumbar, or lower back, region of the spine. The *Valeo* spinal fixation implants will feature silicon nitride ceramic spinal spacers for insertion between two vertebrae to help stabilize the spine, along with a metal cervical bone plate system and a metal pedicle screw system for supplemental fixation. We expect to launch the first of these product candidates by mid-2008, subject to clearance by the FDA. In 2006, we received clearance from the FDA for a silicon nitride ceramic spinal spacer, a device for insertion between two vertebrae to help stabilize the spine. We believe this is the first ceramic spinal spacer ever cleared by the FDA for human use. Although we do not plan to commercialize this spinal spacer, it will be the predicate device for our *Valeo* spinal spacers. We plan to introduce additional spinal spacers by the end of 2008, subject to regulatory clearance, including cortico-cancellous spacers that feature a bone-like structure with a solid, or cortical, load-bearing portion and a cancellous, or porous, structure that is intended to promote bone attachment for spinal fixation. In mid-2009, subject to regulatory approval, we plan to introduce cortico-cancellous spinal spacers with a surface coating designed to enhance bone attachment. Our *Valeo* family of spinal implant candidates also includes an all-ceramic, motion-preserving cervical disc, for which we anticipate commencing a clinical trial by mid-2009.

In addition, we are incorporating our silicon nitride ceramic technology into the development of our *Infinia*[™] family of total hip and knee implants. We anticipate performing clinical trials for each of our *Infinia* product candidates. We believe that our *Infinia Total Hip and Knee Implants*, if approved or cleared by the FDA, may provide competitive advantages over currently marketed total hip and knee replacement implants. We are designing our *Infinia Total Hip Implant* to offer surgeons a range of sizes and design options comparable to implants with metal and plastic components but with improved wear resistance. We anticipate commencing a clinical trial for the first of these total hip implant candidates in 2009. We also are designing our *Infinia Total Knee Implant* and anticipate commencing a clinical trial for this product candidate in 2010. We believe that its design will provide natural anatomic motion and offer lower wear and improved longevity compared to currently marketed knee replacement implants.

During the past two years, we have been designing and constructing our own manufacturing facility and developing processes that will provide us the ability to control the commercial-scale production of our silicon nitride ceramic implants from powder form to devices ready for sterilization and packaging. We are currently producing our lead ceramic spinal product candidates on a pilot scale in our manufacturing facility. We anticipate our facility will be fully operational for commercial-scale production by the end of 2007, which we believe would make us the only vertically integrated silicon nitride orthopedic implant manufacturer in the world.

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Market Opportunity

According to the Millennium Research Group, in 2006, patients in the United States had approximately 1.5 million spinal fixation, hip replacement and knee replacement surgical procedures performed that involved the use of implants, and this number is expected to grow primarily due to the rising incidence of arthritis. In 2005, an estimated 46 million U.S. adults suffered from doctor-diagnosed arthritis, and nearly two-thirds of those afflicted were younger than age 65. Osteo-arthritis, a condition involving the degeneration, or wearing away, of the cartilage at the end of bones, is a common form of arthritis, and often results in progressive joint disease and pain. The prescribed treatment for osteo-arthritis disorders depends on the severity and duration of the disorder and ranges from non-operative procedures including bed rest, medication, lifestyle modifications, exercise, physical therapy, chiropractic care and steroid injections, to surgical intervention including total joint replacement.

In cases where surgical intervention is prescribed, the use of implants has evolved into the standard of care in spine, hip and knee surgery. Surgeons replace affected joints with artificial implants, which currently are made from metal alloys, plastics such as polyethylene, allograft bone, or bone taken from a human cadaver donor, and ceramics. Implants such as hip and knee replacement implants, and motion-preserving disc implants, have components which move, or articulate, against each other and are known as articulating implants. Surgeons select the implants according to their patient's weight, sex, age, activity level and other medical considerations. After surgery and rehabilitation, the patients usually experience less pain and swelling, and gain improved range of motion.

We believe that the market for implants used in spine, hip and knee surgical procedures will continue to grow because of the following market dynamics:

- *Growth of the aging population.* The population segment most likely to experience arthritis-related back and joint pain is expected to grow as a result of aging baby boomers, people born between 1946 and 1965, and increasing life expectancy. A majority of hip and knee replacement procedures performed in the United States are performed on the over-65 population, which is expected to increase from approximately 35 million in 2000 to approximately 71 million by 2030.
- *Changing lifestyle expectations.* Middle-aged and older patients increasingly expect to enjoy active lifestyles, and consequently demand effective treatments for painful spine and joint conditions, including better performing and longer lasting implants.
- *Earlier surgical intervention.* The clinical success of implant procedures, improved diagnostics, advances in minimally invasive surgical procedures, and better performing, longer lasting implants are expected to result in an increase in surgical treatment of patients at a younger age.
- *Rising number of revision surgeries.* Premature failures of currently available implants, due in part to the limitations of low wear resistance materials, have resulted in a rapid rise in revision surgeries to replace worn or defective implants. In 2006, approximately 49,700 revision hip surgeries and 48,000 revision knee surgeries were performed in the United States. An estimated 73,400 revision hip surgeries and 87,400 revision knee surgeries will be performed in the United States in 2011.
- *Introduction of new technologies.* Newer implants with improved function, such as articulating disc implants and other motion-preserving implant systems, are expected to drive additional growth of the spinal market. In addition, longer lasting implants are expected to drive growth in the hip and knee market by being indicated at an earlier stage for patients with degenerative joint disease.
- *Market expansion into new geographic areas.* As implant procedures are introduced to and become more widely accepted in underserved countries such as China and India, it is anticipated that demand for implants will increase.

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Spine Implant Market

The spine market is the fastest growing market for orthopedic implants, accounting for \$3.3 billion in sales in the United States in 2006, and is projected to grow at an average annual rate of 12.0% through 2011 to approximately \$5.9 billion. Spinal fixation surgeries currently represent the vast majority of procedures in this market. Approximately 500,000 spinal fixation surgery procedures were performed in the United States in 2006, accounting for approximately \$3.2 billion of the total \$3.3 billion in U.S. spine market sales.

Limitations of Current Spinal Implants

Spinal fixation is the current standard of care for the surgical treatment of spinal disorders including disc herniation, a condition where the disc bulges from between two vertebrae and impinges on nerves causing pain. Spinal fixation procedures aim to relieve the impingement on the nerves by removing the portion of the disc and/or bone responsible for compressing the neural structures and destabilizing the spine. The excised disc or bone is replaced with one or more intervertebral implants, or spacers, placed between the adjacent vertebrae. To provide initial support and long-term stabilization, surgeons commonly use supplemental fixation implants to immobilize the treated area of the spine. These supplemental fixation implants consist of a pedicle screw system for the lumbar area of the spine, and a bone plate system for the cervical area of the spine. To enhance bone attachment, surgeons often pack pulverized bone harvested from the patient, known as autograft bone, in and around fixation implants. Autograft bone is rich in natural bone morphogenic proteins, or BMPs, which promote growth of new bone tissue into and around spinal implants to fuse the vertebrae. As an alternative, synthetic BMPs are also often used to promote bone growth and achieve fusion more quickly.

Currently marketed spine implants have significant performance limitations due to the materials from which they are made. Spine implants are manufactured using allograft, or cadaver bone; metals, such as titanium; or plastics, such as polyetheretherketone, or PEEK. While all of these materials enable manufacturers to produce load-bearing spacers, none of the currently available spinal spacers possess all of the important characteristics desired by surgeons. Drawbacks include:

- *Limited availability and inconsistent quality of allograft bone.* Allograft bone is in short supply and is subject to inconsistent quality and size, often requiring surgeons to make compromises on fit while operating on patients. Patients also face a relatively remote but finite risk of disease transmission and immune response when introducing allograft bone into the body.
- *Current materials require supplemental bone fusion promoters.* Current spacer materials are bio-inert and require growth factors such as synthetic BMPs to promote bone attachment. However, with cost-containment initiatives from hospitals and public and private payors alike, separate reimbursement for the use of BMPs in spinal fixation procedures have come under increasing cost/benefit scrutiny. BMPs are also known to provoke inflammation in the cervical spine and to form abnormal bone growth in the lumbar spine, which may impinge on neural structures. Alternatively, surgeons can use autograft bone which requires secondary surgery, resulting in increased pain, a longer recovery period, higher costs and greater risk of infection.
- *Currently available spinal implant materials lack optimal imaging-compatible characteristics.* Surgeons use X-ray imaging and magnetic resonance imaging, or MRI, during spinal fixation procedures to assist in the proper placement of implants, as well as to assess the quality of post-operative bone fusion. Traditional metal alloy materials restrict the ability of physicians to detect the extent and quality of bone attachment and ingrowth due to their X-ray density or magnetic nature. PEEK products are hard to detect using X-ray, even with the embedded markers that surgeons use to enable them to place the implants during surgery and confirm their location and the quality of attachment to bone after surgery.

Although spinal fixation procedures may address symptoms in the short term, they prevent natural movement among vertebrae, which can result in a reduction in a patient's range of natural motion and accelerated degeneration of healthy discs at levels above and below the fixed vertebrae. Therefore, many orthopedic implant

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companies are pursuing the development of a new generation of disc replacement implants designed to restore natural motion between vertebrae. Similar to the evolution of articulating implants for hips and knees, motion-preserving disc implants are emerging as a promising alternative to spinal fixation. To date, the only motion-preserving disc replacement implants approved for marketing in the United States are metal-on-polyethylene implants, which have a risk of slippage or dislocation due to a three-piece construction. Although the clinical experience of these implants is recent and longer-term outcomes are not established, they may have limitations due to unfavorable imaging and wear characteristics commonly associated with metal-on-polyethylene articulating implants.

Hip and Knee Implant Market

Orthopedic implants used in hip and knee replacement surgeries generated approximately \$5.6 billion in sales in 2006 in the United States, and such sales are projected to increase at an average annual rate of 9.4% through 2011 to approximately \$8.8 billion. Approximately one million primary hip and knee replacement procedures were performed in the United States in 2006.

Limitations of Current Hip and Knee Implants

Total hip replacement involves removing the diseased joint and replacing it with an artificial hip implant. This procedure entails the removal of the head, or the upper end of the thigh bone, known as the femur, and replacing it with an artificial femoral head, consisting of a ball mounted on an artificial stem which is inserted into the femur. The artificial femoral head articulates against an artificial socket, called an acetabular liner, which is placed inside an acetabular cup affixed into the pelvic bone. The femoral head and acetabular liner are often referred to as bearings.

Total knee replacement also involves removing the diseased joint and replacing it with an artificial knee implant. This procedure entails removal of the lower end of the femur, known as the condyle, removal of the upper end of the major lower leg bone, or tibia, and the removal of the knee cap, or patella. Following removal of the diseased tissue, an artificial knee implant is inserted, consisting of four main components: a femoral condyle, or a specially shaped bearing that is affixed to the lower end of the femur; a tibial tray that is affixed to the upper end of the tibia; a tibial insert that is rigidly fixed to the tibial tray and serves as the surface against which the femoral bearing moves; and a patella.

Because articulating implants have components that move against each other, causing friction, wear debris has been a clinical problem experienced in the hip and knee implant market. With conventional articulating implants, such as a hip replacement implant with a metal femoral head articulating against a polyethylene acetabular liner, friction can degrade the liner, causing small polyethylene wear particles to break off in the body. The human immune system rejects this foreign debris, attacking it much like it would attack an infection. Because wear debris typically settles around the site of the implant, the immune system also attacks and degrades the surrounding bone tissue, which is known as osteolysis. As a patient loses bone tissue in his or her hip, the implant can become loose and unable to function.

Orthopedic surgeons identify osteolysis as a leading cause of joint implant failure, resulting in the need for revision procedures to replace the failed implant. Ever since the connection between polyethylene particles and implant failures was established over two decades ago, articulating joint components made with alternative materials, including cross-linked polyethylene, metals and ceramics, have been used to reduce wear. Currently available implants for total hip and knee replacements are primarily differentiated by the materials used for the alternate bearing surfaces of the implants, the most common of which are metal-on-cross-linked polyethylene, metal-on-metal, and ceramic-on-ceramic. While all of these alternative materials have resulted in improved wear resistance, none of them possess all of the important characteristics desired by surgeons. Drawbacks include:

- *Risk of premature implant failure with cross-linked polyethylene.* Despite its greater resistance to wear, cross-linked polyethylene is more brittle than traditional polyethylene and consequently is prone to

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fatigue failure. In addition, cross-linked polyethylene wear particles can generate a stronger adverse biologic response, resulting in bone loss and premature implant failure, the very problem that cross-linked polyethylene was designed to address.

- *Design and size limitations of implants with cross-linked polyethylene.* Surgeons prefer the use of larger diameter femoral heads because they are less likely to dislocate from the acetabular liners. However, higher wear is observed for larger sized cross-linked polyethylene liners, leading to greater wear debris. Consequently, some surgeons avoid the use of large sized cross-linked polyethylene components.
- *High metal ion concentrations with metal-on-metal bearings.* Metal-on-metal bearings generate fine metal particles or metal ions which are absorbed in the body. These particles are excreted from the body through the kidneys. Increasingly, surgeons are voicing concerns about the potential toxic effects of such high metal concentrations and the burden on the kidneys. Some patients also exhibit a hypersensitivity or allergic response to metals in their body.
- *Design and size limitations of implants with currently available ceramic bearings.* Currently marketed ceramic implants are limited by the strength and fracture resistance of currently available ceramic materials. Current ceramic acetabular cups, for example, require a metal shell to contain and reinforce the ceramic liner. This two-piece design limits the size of the femoral head that may be used because of cumulative thickness of the multiple pieces in a restricted joint space. However, physicians prefer the use of larger heads to minimize the risk of hip dislocation. In addition, ceramic femoral heads are limited in the depths to which they can be seated on the femoral stem, thereby restricting the ability to restore proper leg length. Significant leg length discrepancy results in a limp, which is the primary cause for malpractice lawsuits related to hip replacement surgeries.

We believe the rising market demand for orthopedic implants, coupled with the significant drawbacks associated with existing materials used for current implants, creates a substantial market opportunity for implants made with higher performing materials.

Our Solution

We believe our silicon nitride ceramic technologies, MC^2 and C^3C , will overcome many of the limitations associated with currently available implant materials by providing an improved combination of characteristics, including:

- *greater strength and resistance to fracture* than currently marketed ceramic implants;
- *improved resistance to wear* compared to implants made of plastics and metals;
- *greater ability to promote bone attachment* than traditional plastic and metal implants such as PEEK and titanium; and
- *better compatibility with surgical and diagnostic imaging techniques.*

We believe that the anticipated greater strength and fracture resistance of our silicon nitride product candidates will allow us to offer a wider range of design and size options and lower risk of fracture compared to currently marketed implants made of ceramic materials. We further believe that the anticipated improved wear resistance and the biocompatibility over the life of our silicon nitride implant candidates will reduce the risk of osteolysis and allergic response to metal wear particles. Based on these potential advantages, we believe that our silicon nitride product candidates may achieve better long-term clinical outcomes with a combination of improved durability, longevity, biocompatibility and patient fit.

Micro-Composite Ceramic, or MC^2 . We refer to our formulation of silicon nitride as MC^2 , or Micro-Composite Ceramic. We expect that all of our ceramic product candidates will be made using our MC^2 silicon nitride. Since our inception we have focused on the development of a uniformly dense, micro-particle formulation of silicon nitride ceramic that has the strength, toughness and wear resistance necessary to overcome

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the limitations of currently available orthopedic implants. This ceramic is made from silicon nitride formulated with dopants such as yttria and alumina. We believe we are the first company to engage in the development of ceramic-based spine and joint implants made from silicon nitride, which in the past has been used in mission-critical aerospace and other applications requiring high-strength and low-friction of moving parts. For the demanding applications represented by human implants, we produce a biocompatible silicon nitride ceramic of precise specifications with the high strength and toughness necessary to achieve the required fracture resistance and reliability. We believe that we have developed significant know-how related to the manufacture of spine and joint implants made from silicon nitride. We also have an issued patent and pending patent applications directed to certain articulating implants with silicon nitride components.

Cortico-cancellous Structured Ceramic, or C^{SC}. We also are developing implants made with our MC² silicon nitride that mimic the structure of natural bone by incorporating both a dense load-bearing component and a porous component, coupled with a surface coating, intended to promote bone attachment. We call our ceramic implants based on this technology C^{SC}, or Cortico-cancellous Structured Ceramic, implants. We are developing our C^{SC} implants for applications where the promotion of bone attachment is important for successful implant fixation. We have been issued two U.S. patents directed to our implants that will have both a dense load-bearing, or cortical, component and a porous, or cancellous, component, together with a surface coating. We also have pending patent applications directed to our cortico-cancellous structured implants using our C^{SC} technology. In addition, we have exclusively licensed three U.S. patents and foreign counterparts, together with related know-how, directed to manufacturing processes for the production of porous ceramics for use in our orthopedic implants.

Our Strategy

Our goal is to become a leading orthopedic company offering advanced silicon nitride ceramic implants for a broad range of orthopedic indications. We intend to use our ceramic technologies to develop implants that have performance advantages compared to existing implants. We believe that the combined benefits of our MC² and C^{SC} technologies will give our product candidates the potential to become a new standard of care for spine, hip and knee procedures.

Key elements of our strategy to achieve this objective include the following:

- *Launch near-term product candidates that address substantial market opportunities and build market awareness.* We intend to pursue the FDA's 510(k) pathway for clearance of our lead product candidates targeting spinal fixation, adding stepwise improvements to previously cleared products to help expedite the FDA review process. Subject to FDA clearance, we expect to introduce three of our lead spinal fixation product candidates, the *Valeo Cortical Ceramic Spacers*, the *Valeo Cervical Plate System* and the *Valeo Pedicle Screw System* by mid-2008. Thereafter, we plan to introduce our *Valeo Cortico-Cancellous Spinal Spacers* by the end of 2008, followed by our *Valeo Coated Cortico-Cancellous Spinal Spacers* by mid-2009. We expect that the introduction of these product candidates will accelerate physician awareness and acceptance of our ceramic-based implants and therefore help to facilitate market penetration of our pipeline product candidates.
- *Build a broad portfolio of ceramic implants targeting expanded indications and additional surgical procedures.* We are continuing to develop our product candidate portfolio to introduce future generations of implant products and expand the range of surgical indications and procedures that our implants address. These next generation product candidates will enable us to offer the broad suite of implants sought by orthopedic surgeons and distributors, including total disc replacements and total hip and total knee implant systems. We believe that the product candidates we are developing will be longer lasting and can be used for earlier intervention, resulting in better patient care.
- *Utilize the expertise of our surgeon advisors to design physician-preferred product features.* Our surgeon advisors participate throughout our product development process for both our spine and joint reconstructive product candidates. Our surgeon advisors include leading orthopedic surgeons in the

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United States, such as Aaron A. Hofmann, M.D., the designer of the Natural Knee™, a widely used total knee implant. We work closely with our surgeon advisors in the design of our implants and expect to benefit from their strong networks of national and international surgeon relationships to facilitate awareness of our product candidates.

- *Establish a hybrid sales organization utilizing experienced, independent sales agencies and a direct sales force.* We intend to partner with independent sales agencies to leverage their experience and strong surgeon relationships in both the spine and joint reconstructive markets to help us penetrate both U.S. and international markets. In the United States, we plan to establish a direct sales force to complement our independent sales agents in selected markets.
- *Selectively establish collaborations for our implants with leading orthopedic companies.* We intend to develop collaborations in markets outside of the United States where we believe that having a large, well-established partner will enable us more efficiently to gain access to those markets. In addition, we may establish collaborations in the United States in instances when access to a larger sales and marketing organization may help to expand the market or accelerate penetration for selected product candidates.

Our Product Candidates

The table below identifies our products under development, lists their regulatory status, and indicates the anticipated launch dates of our lead spinal fixation product candidates and the anticipated start of clinical trials of product candidates in our development pipeline.

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	PRODUCT DESCRIPTION	CERAMIC TECHNOLOGY	REGULATORY PATHWAY*	REGULATORY STATUS	ANTICIPATED PRODUCT LAUNCH OR CLINICAL TRIAL START
SPINAL IMPLANT PRODUCTS					
<i>Predicate Device</i>					
<i>Arx Intervertebral Spacers</i>	Ceramic spacers for Intervertebral Fixation	MC ²	510(k)	Cleared	N/A
<i>Lead Products</i>					
<i>Valeo Spinal Spacers</i>					
Cortical	Ceramic Spacers for Intervertebral Fixation	MC ²	Special 510(k)	Submission planned H2 2007	Product Launch H1 2008
Cortico-Cancellous	Ceramic Spacers with Cancellous Structure for Intervertebral Fixation	MC ²	Special 501(k)	Submission planned H1 2008	Product Launch H2 2008
Coated Cortico-Cancellous	Coated Ceramic Spacers with Cancellous Structure for Intervertebral Fixation	MC ² /C ² C	510(k)	Submission Planned H1 2008	Product Launch H2 2008 - H1 2009
<i>Valeo Cervical Plate System</i>	Metal Cervical Spine Fixation Plate, Screws and Drill Guide	N/A	510(k)	Submission Planned H2 2007	Product Launch H1 2008
<i>Valeo Pedicle Screw System</i>	Metal Lumbar Spine Fixation Rods, Hooks and Screws	N/A	510(k)	Submission Planned H2 2007	Product Launch H1 2008
<i>Pipeline Product</i>					
<i>Valeo Cervical Disc</i>	Motion Preserving Ceramic Total Disc Implant for Cervical Spine	MC ² /C ² C	PMA	IDE Submission Planned H2 2008	Clinical Trial Start H1 2009
HIP IMPLANT PRODUCTS					
<i>Pipeline Products</i>					
<i>Infinia Total Hip Implant</i>	Hip Implant with Ceramic Femoral Head, Polyethylene Liner and Metal Shell	MC ²	510(k) with IDE to Support Clearance	IDE Submission Planned H1 2009	Clinical Trial Start H2 2009
<i>Infinia Total Hip Implant II</i>	Hip Implant with Ceramic Femoral Head and Ceramic Monoblock Cup	MC ² /C ² C	PMA	IDE Submission Planned H2 2009	Clinical Trial Start H2 2009
	Hip Implant with Cobalt-Chromium Metal Femoral Head and Ceramic Monoblock Cup	MC ² /C ² C	PMA	IDE Submission Planned H2 2009	Clinical Trial Start H2 2009
KNEE IMPLANT PRODUCT					
<i>Pipeline Product</i>					
<i>Infinia Total Knee Implant</i>	Knee Implant with Ceramic Condyle, Polyethylene Tibial Insert and Metal Tibial Tray	MC ² /C ² C	PMA	IDE Submission Planned H2 2009	Clinical Trial Start H1 2010

* Anticipated regulatory pathways for future submissions to the FDA of applications for product candidates.

Our planned strategy for clearance of our *Valeo Cortical Spinal Spacers* described in the foregoing table will be to submit two successive Special 510(k) notifications for clearance of two different aspects of this product candidate. We expect these Special 510(k) clearances will serve as the basis for clearance of the next spinal spacers product candidate we plan to launch.

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Our Spinal Implant Products

We have designed our lead product candidates in our *Valeo* family of spinal implants as a comprehensive solution for surgical procedures for spinal fixation. These products include spinal spacers, a cervical bone plate system, a pedicle screw system, and a set of surgical instruments that facilitate the placement of our implants in the body. We are also developing an all-ceramic motion-preserving cervical disc.

Valeo Spinal Spacers

We have designed our *Valeo* family of spinal spacers, using silicon nitride ceramic, as intervertebral fixation implants for stabilizing the spine by replacing a portion of a vertebra that has collapsed, been damaged, or becomes unstable due to disease or trauma. Intervertebral implants were estimated to comprise an annual U.S. market of approximately \$805 million in 2006. We believe that each of our *Valeo Spinal Spacers*, if cleared by the FDA, will have competitive advantages compared to existing spinal implants made from allograft bone, PEEK or metals, and the ability to permit X-ray and MRI imaging during and after the surgical procedure. We developed and received FDA clearance for our *Arx* Intervertebral Spacers made from *MC²* silicon nitride, which will serve as the predicate device for the 501(k) premarket notification for our *Valeo Cortical Spinal Spacers* product candidate.

Cortical. We are conducting tests on our *Valeo Cortical Spinal Spacers* made of silicon nitride ceramic in anticipation of submitting two successive Special 510(k)s in the second half of 2007. We anticipate launching our *Valeo Cortical Spinal Spacers* by mid-2008.

Cortico-Cancellous. We have designed our *Valeo Cortico-Cancellous Spinal Spacers* to be identical to our *Valeo Cortical Spinal Spacers* except that this implant, in addition to its cortical structure, also will include a cancellous, or porous, structure that will facilitate bone attachment to the cancellous portion of the implant. We are conducting tests on our *Valeo Cortico-Cancellous Spinal Spacers* in anticipation of submitting a Special 510(k) to the FDA by mid-2008 and we anticipate launching the *Valeo Cortico-Cancellous Spinal Spacers* by the end of 2008.

Coated Cortico-Cancellous. We have designed our *Valeo Coated Cortico-Cancellous Spinal Spacers* to be identical to our *Valeo Cortico-Cancellous Spinal Spacers* except that this product candidate also will include a surface coating made of hydroxy-apatite designed to enable natural bone to more effectively attach to the cancellous portion of the implant. We are conducting tests on our *Valeo Coated Cortico-Cancellous Spinal Spacers* in anticipation of submitting a 510(k) premarket notification to the FDA by mid-2008, and we anticipate launching the *Valeo Coated Cortico-Cancellous Spinal Spacers* in mid-2009.

Valeo Cervical Plate System

We are developing our *Valeo Cervical Plate System* as a titanium alloy supplemental fixation implant to be used in conjunction with our *Valeo Spinal Spacers*. Currently available bone plate systems accounted for an estimated \$428 million in U.S. sales in 2006. We consulted extensively with our spine surgeon advisors in the design of the *Valeo* cervical plate product and related surgical instruments in order to incorporate features aimed at making cervical fixation procedures more efficient, simpler and more consistent. Our design and instruments combine special features to enable surgeons, in a single step, to hold the cervical plate in place, ensure proper angling and insertion of the screws into the vertebrae, and achieve a consistent supplemental fixation outcome. We also believe that our *Valeo Cervical Plate System* product candidate, because of its design features, may be an attractive option for use with other spacers for cervical spine fixation.

We have finalized the design of our *Valeo Cervical Plate System*. We anticipate completing product testing and verification and submitting a 510(k) premarket notification in the second half of 2007. We anticipate launching this product by mid-2008.

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Valeo Pedicle Screw System

We are developing our *Valeo Pedicle Screw System* as a titanium alloy, low profile, and modular implant system to be used in conjunction with our *Valeo Spinal Spacers* for supplemental fixation of the lumbar spine. Pedicle screw systems accounted for an estimated \$1.2 billion in U.S. sales in 2006. We consulted extensively with our spine surgeon advisors in the design of the *Valeo Pedicle Screw System* in order to incorporate features allowing surgeons greater flexibility in the positioning of screws and rods and selection of rod diameters during surgery. We have designed modularity in the system components to permit such flexibility, which we believe will provide better clinical outcomes. We also believe that our *Valeo Pedicle Screw System* product candidate, because of its design features, may be an attractive option for use with other spacers for lumbar spine fixation.

We have finalized the design of our *Valeo Pedicle Screw System*. We anticipate completing the product testing and verification and submitting a 510(k) premarket notification in the second half of 2007. We anticipate launching this product by mid-2008.

Valeo Cervical Disc

We are developing our *Valeo Cervical Disc*, using both our *MC²* and *C⁵C* technologies, as a silicon nitride ceramic implant to meet the unmet market need for a disc replacement implant that will restore natural motion and provide uncompromised wear resistance and favorable imaging characteristics in the cervical spine. This product candidate is aimed at the cervical disc market which is estimated to generate in excess of \$450 million in U.S. sales by 2011. We believe to date, that two companies have introduced lumbar discs which seek to mimic the natural biomechanics of the spine, and numerous other orthopedic implant companies are pursuing the development of disc implants to restore natural spinal motion. However, to our knowledge, most of these companies are using traditional metal-on-polyethylene bearings or metal-on-metal bearings, both of which are known to produce wear debris with less than optimal long-term outcomes. To our knowledge, a small number of companies are pursuing the development of disc implants with ceramic bearing surfaces, but we understand these bearing surfaces are embedded in metal backings which may interfere with imaging. We believe our *Valeo Cervical Disc*, if approved by the FDA, will represent a significant advance over currently available disc implants by mimicking the natural biomechanics of the spine, eliminating plastic and metal wear particles, promoting secure attachment to adjacent vertebrae, and allowing improved X-ray and MRI imaging.

We are finalizing the design of our *Valeo Cervical Disc*. We anticipate submitting an IDE, or investigational device exemption, application to the FDA in the second half of 2008, and beginning clinical trials of this implant in the first half of 2009. We are also exploring the possibility of developing a similar product for use in the lumbar spine.

Our Hip Implant Products

Infinia Total Hip Implant

We are developing our *Infinia Total Hip Implant* for patients undergoing total hip replacement surgery for the treatment of degenerative joint disease. This product candidate targets the market for total hip implants, estimated at \$2.4 billion in the United States in 2006. In our first hip replacement implant, we will use silicon nitride ceramic for the femoral head component of this implant. The counter-bearing, or mating component, of the hip implant, will be a polyethylene liner, fixed into a metal acetabular cup, using industry-recognized designs and materials. We anticipate that our *Infinia Total Hip Implant*, if cleared by the FDA based on clinical trial results, will provide the following significant competitive advantages over traditional total hip replacement implants presently on the market:

- Our femoral head will use silicon nitride ceramic material that significantly reduces polyethylene wear debris which is believed to be the primary reason for implant failures in implants using plastic bearings. We believe this reduction in wear debris should significantly improve the performance and longevity of our implants; and

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- Our use of silicon nitride ceramic will enable us to offer femoral heads with sizing options comparable to metal femoral heads and substantially greater than currently marketed ceramic heads. This will reduce the dislocation risk associated with smaller femoral heads. In addition, our silicon nitride ceramic will enable us to offer offset sizing options comparable to metal femoral heads which will minimize, if not entirely eliminate, the need for surgeons to settle for less than optimal leg length results. We also believe that we will be able to offer heads with substantially greater strength than currently marketed ceramic heads.

We are finalizing the design of our *Infinia Total Hip Implant*. We anticipate submitting a 510(k) premarket notification and an IDE application to perform clinical trials to support our 510(k) premarket notification to the FDA in the first half of 2009, and beginning clinical trials of this implant in the second half of 2009.

Infinia Total Hip Implant II

We are developing our second generation *Infinia Total Hip Implant II* featuring our *Infinia* monoblock cup, an industry-first, one-piece, fully ceramic acetabular cup, our large diameter *Infinia* ceramic and metal femoral heads, and our *Infinia* femoral stem. The *Infinia* monoblock cup will be made from our *MC²* silicon nitride ceramic and will incorporate a smooth bearing surface on the inside of the cup integrated with a bone attachment surface incorporating our *C⁵C* technology on the outside of the cup that comes into contact with a patient's pelvis. The strength of silicon nitride ceramic allows us to design the *Infinia* monoblock cup as a one-piece component without the need for a separate liner, which will allow the use of larger femoral head sizes. Larger diameter femoral heads are known to have a lower incidence of dislocation.

The femoral head of the implant will be a large-diameter head offered in two versions, one made of silicon nitride and the other of cobalt-chromium. The femoral head will be used with a metal stem inserted into the femur. In contrast to currently marketed ceramic femoral heads, we are designing our *MC²* femoral head to offer surgeons a range of size and design options comparable to those available in metal femoral heads.

We are currently designing our *Infinia* monoblock cup, femoral head and femoral stem components. We have also begun testing the various silicon nitride components of our *Infinia Total Hip Implant II*. We anticipate that the femoral stem utilized in our first generation *Infinia Total Hip Implant* will be incorporated in our *Infinia Total Hip Implant II*. We anticipate submitting an IDE application for our *Infinia Total Hip Implant II* in the first half of 2009 and beginning clinical trials of this product candidate in the second half of 2009.

Our Knee Implant Product

Infinia Total Knee Implant

Our *Infinia Total Knee Implant* will incorporate our *MC²* silicon nitride bearing components for the femoral condyle and will target the market for total knee implants estimated at \$3.3 billion in the United States in 2006. The tibial tray will be made from traditional metal. The tibial insert will be made from polyethylene in a rotating platform design intended to give the knee implant a range of motion and flexion similar to the natural knee. As currently planned, this knee design will also feature an asymmetric design to closely simulate natural anatomy, together with a low profile metal tibial tray, to allow surgeons to implant the *Infinia Total Knee Implant* using minimally invasive surgical techniques. We anticipate that this knee implant will provide natural anatomic motion and will offer a low-wear knee replacement option, providing significantly improved longevity compared with current metal-on-polyethylene knee implants.

We are currently designing the *Infinia Total Knee Implant*. We anticipate submitting an IDE application for this implant system in the second half of 2009 and beginning clinical trials of this product candidate in the first half of 2010.

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Our Ceramic Technologies

Since our inception, we have focused on the development of two technologies based on which we intend to commercialize advanced, high-performance orthopedic implant candidates:

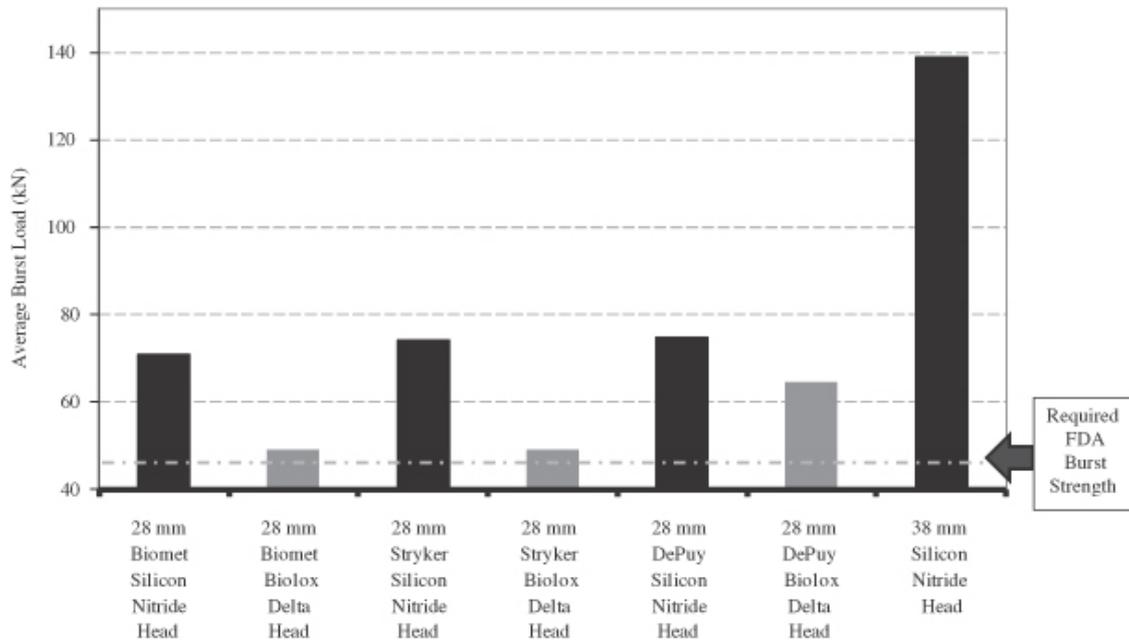
- We have developed a uniformly dense, micro-particle formulation of silicon nitride ceramic. We refer to the product candidates that we are developing based on this ceramic as our *MC²*, or *Micro-Composite Ceramic*, implants.
- We have developed implants that mimic the structure of natural bone by incorporating both a dense, load-bearing component and a porous component to promote bone attachment. We call these our *C³C*, or *Cortico-cancellous Structured Ceramic*, implants.

Our MC² Implants

The ceramic that we produce for our *MC²* implants is made from silicon nitride formulated with dopants such as yttria and alumina. We believe we are the first company to engage in the development of ceramic-based spine and joint implants made from silicon nitride. We believe our implant candidates will provide a combination of high strength, fracture resistance, wear resistance and radiolucency that can overcome the limitations of currently available orthopedic implants.

Strength and Resistance to Fracture. We have conducted mechanical tests, following FDA guidelines, to compare the strength of 28 mm femoral heads made using silicon nitride ceramic material produced by a contract manufacturer to our specifications, with 28 mm femoral heads made using the strongest commercially available ceramic, BioloX Delta™. In these tests, we compared the “burst strength” of three designs of the silicon nitride femoral heads, made to the design specifications of three different orthopedic manufacturers, with the burst strength of comparably designed femoral heads made using BioloX Delta. We applied a load to the femoral heads, each of which was mounted on a typical hip implant stem, until the heads burst, which enabled us to measure the strength of the femoral heads and provided an indication of the fracture resistance. While 28 mm femoral heads are used by surgeons, as larger diameter femoral heads have become available, many surgeons prefer the use of these larger femoral heads to reduce the incidence of post-operative dislocation, one of the most common complications of hip replacement surgery. Because of this trend in favor of the use of larger diameter femoral heads, we also conducted burst strength tests of 38 mm femoral heads made from silicon nitride. The burst strength comparing the different femoral head designs are shown in the chart on the following page.

Femoral Head Burst Strength Comparison



These tests demonstrated that the silicon nitride femoral heads had substantially greater burst strength than the femoral heads made with Biolox Delta. The silicon nitride femoral heads had burst strengths ranging from 71 kilo-Newtons, or kN, to 75 kN compared to average burst strengths ranging from 49 kN to 65 kN for the Biolox Delta femoral heads. We also have proven that larger silicon nitride femoral heads of 38 mm diameter have even greater burst strengths which averaged approximately 139 kN. The minimum FDA average burst strength requirement to legally market ceramic femoral heads is 46 kN.

We anticipate that the superior strength of the silicon nitride ceramic material that we intend to use for our implant products will provide us with a greater ability to develop implants that offer surgeons a wider size and design range than is possible with currently marketed ceramics. This, we believe, will provide surgeons with more flexibility than currently possible when choosing implants for patients, resulting in better clinical outcomes.

Wear Resistance. We had a wear study performed on a similar silicon nitride ceramic material produced by a contract manufacturer to our specifications. In this study, we tested silicon nitride femoral heads articulating against silicon nitride ceramic acetabular liners and cobalt-chromium metal alloy femoral heads articulating against silicon nitride ceramic acetabular liners. Using well-established protocols in a hip simulator, the silicon nitride ceramic bearings demonstrated:

- over 100 times lower wear than reported for metal-on-polyethylene hip bearings;
- 20 times lower wear than reported for metal-on-cross-linked polyethylene hip bearings;
- 10 times lower wear than reported for metal-on-metal hip bearings; and
- comparable wear to that reported for existing ceramic-on-ceramic hip bearings.

We also had a separate wear study performed to test silicon nitride ceramic femoral heads made from material produced by the same contract manufacturer, articulating against commercially available polyethylene liners. One of the conclusions from this simulator wear study was that the silicon nitride ceramic head-polyethylene liner combination exhibited low wear comparable to the low wear reported for the widely used

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combination of an alumina ceramic head articulating against a polyethylene liner. As indicated in the clinical literature presented at the American Academy of Orthopedic Surgeons, ceramic-on-polyethylene bearings exhibit about 50% lower wear than metal femoral head-polyethylene liner combinations. The study also demonstrated the superior scratch resistance of the silicon nitride ceramic femoral heads compared with metal femoral heads, the latter having an 8-fold increase in surface roughness compared to the silicon nitride ceramic heads.

Radiolucency. We conducted a study to compare the imaging characteristics of discs made of metals such as titanium, plastics such as PEEK and silicon nitride using a cadaver human vertebral body. Images of the vertebral body and the discs were obtained using X-ray fluoroscopy, an imaging technique using a fluorescent screen to examine the internal structure of the body, computer tomography, or CT, an imaging technique for visualizing a three-dimensional image of the internal structure of the body, and MRI under identical conditions. We assessed the radiolucent characteristics of the discs in X-ray fluoroscopy images quantitatively, assessed the presence of scatter in CT scans qualitatively, and assessed distortion in MRI quantitatively. We found that in X-ray fluoroscopy, the metal discs did not permit visualization of the underlying bone of the vertebral body while PEEK was transparent, rendering its location difficult to determine. The silicon nitride disc had an intermediate radiolucency that rendered it visible as well as allowing a visual assessment of the underlying bone of the vertebral body. CT and MRI scans of the metal discs indicated the presence of distortion while silicon nitride and PEEK exhibited no scattering. The study thus demonstrated that the combination of partial radiolucency in X-ray fluoroscopy, and no distortion in CT and MRI scans would facilitate both placement of spinal spacers during surgery and post-operative monitoring of bone attachment.

MC² Biocompatibility. We have conducted a full complement of required biocompatibility tests, following guidelines of the FDA and the International Standards Organization, or ISO. These tests confirmed that the silicon nitride ceramic produced by a contract manufacturer to our specifications met required biocompatibility standards for human use. We have submitted a master file to the FDA for this silicon nitride ceramic containing these test results. We intend to repeat the full battery of biocompatibility tests on silicon nitride produced in our manufacturing facility.

Our C^{SC} Implants

Like natural bone, which has a cortical, or dense, load-bearing outer surface, and a cancellous, or porous, inner region, our C^{SC} implant candidates have a solid load-bearing portion adjacent to a porous portion. By integrating both load-bearing and porous structures, our C^{SC} implant candidates are designed to provide structural integrity while at the same time facilitating the attachment of surrounding bone to the implant. Our C^{SC} implant candidates also incorporate a coating to promote bone attachment. While our C^{SC} technology can be applied to any ceramic material, we are using it with our MC² silicon nitride to develop implant candidates for applications where the promotion of secure bone attachment is important for successful implant fixation. We believe that the inertness of our silicon nitride ceramic material, coupled with the porous structure that mimics natural cancellous bone, will promote bone attachment. We also believe that this combination, together with a surface coating, may alleviate the need for bone morphogenic proteins to promote bone attachment. We have been issued two U.S. patents directed to our C^{SC} technology. We also have exclusively licensed three U.S. patents and foreign counterparts, together with related know-how, directed to manufacturing processes for the production of porous ceramics for use in our orthopedic implants. These processes are versatile and allow us to manufacture our implants from our MC² silicon nitride with a range of porosity and pore size that mimic natural cancellous bone.

Osteointegrative Properties. We conducted a pilot animal study using skeletally mature sheep to evaluate the ability of the porous portion of our C^{SC}-designed implants to promote osteointegration, or the growth of new bone, within the test animals in a knee-defect model. In this study, we implanted porous cylinders made of a commonly used ceramic in the condyle, or lower end, of the femur, or thigh bone, of the sheep. This animal study showed the rapid osteointegration potential of the porous implants. The porous implants also had extensive new

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bone formation at and into the implant surface, and showed the presence of new bone at the center of the implants. We believe this study indicates the potential of our *C⁵C* implants to promote bone attachment.

Sales and Marketing

Our marketing strategy will highlight our ceramic technologies and the design advantages of our product candidates. We intend to make strong distribution channels and technical education our strategic focal points.

Upon FDA clearance, we intend to market and sell our lead spinal products in the United States using a hybrid distribution network that includes a combination of experienced, independent sales agents with strong, existing surgeon relationships and a direct sales force in selected markets. A similar hybrid sales force will also be used to market our hip and knee reconstructive products. We have begun to sign agreements with independent sales agents. We intend to employ a clinically experienced technical support team consisting of health care professionals to assist in the training of clinicians and their staff.

We intend to use our surgeon advisors to help implement an awareness campaign for educating other spine and reconstructive joint surgeons about our products. As part of this campaign we plan to provide educational materials to treating physicians, referring physicians and patients. We also intend to organize regional training seminars where our product and training managers, engineers, and sales and marketing staff, together with our surgeon advisors, will educate other surgeons and sales agent support staff in the use of our products.

In selected international markets, such as Europe, Japan, Australia and Canada, we may also seek to establish collaborations with leading orthopedic companies where we believe that a large, well-established partner may provide better access to those markets. In addition, we may establish collaborations in the United States under circumstances where access to a larger sales and marketing organization may help to expand the market or accelerate penetration for selected products.

Product Manufacturing

In order to control the quality, cost and availability of our silicon nitride implants, we are developing our own manufacturing capabilities. Until August 2006, we conducted our manufacturing operations in a 3,378 square-foot pilot and prototype manufacturing facility at our present location in Salt Lake City, Utah, and we used third parties to produce some components of our other ceramic product candidates, such as silicon nitride ball blanks for femoral heads. During the past two years, we have also been developing scaled-up manufacturing processes and building out of our manufacturing facility, certified under the ISO 13485 standard for medical devices, located in an approximately 17,000 square-foot facility near our corporate offices. We expect our manufacturing facility to be fully operational by the end of 2007. It will be equipped with state-of-the-art, computerized mixing equipment, sintering furnaces, robotic machining centers and other testing equipment that will enable us to control the entire process for manufacturing our ceramic implants from powder form to devices ready for sterilization and packaging. To our knowledge, we will be the only vertically integrated orthopedic implant company in the world with the capability to make spine and joint implants from silicon nitride.

Our ceramic manufacturing strategy includes the purchase of raw materials from one or more vendors which are ISO registered and approved by us. These raw materials, consisting of silicon nitride ceramic powder and dopant chemical compounds, are characterized and tested in our facility in accordance with our specifications, and then blended to formulate our silicon nitride material. Subsequently, we form the silicon nitride material into implant components using specialized processing equipment, including computer-controlled machining centers and sintering furnaces. In addition, for our *C⁵C* implants, we have licensed, on a worldwide exclusive basis, a patented technology and related know-how to manufacture porous ceramics.

We plan to rely exclusively on third-parties for the manufacture of products or components made from metals or plastics, including our *Valeo Cervical Plate System*, *Valeo Pedicle Screw System*, the metal components of our *Infinia* hip and knee implants, and surgical instrumentation sets. Our outsourcing strategy is targeted at using contract manufacturers that are FDA registered and which meet the ISO 13485 certification

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standard. We believe the use of third-party sources for metals or plastics will reduce our capital investment requirements and allow us to strategically focus our resources on the development of our product candidates.

We are currently working with our ceramic raw material vendors and parts suppliers to ensure that they can meet our commercialization requirements. We are currently developing and qualifying alternative sources of supply for our raw materials.

Intellectual Property

We rely on a combination of patents, trademarks, trade secrets and other intellectual property laws, nondisclosure agreements, proprietary information ownership agreements and other measures to protect our intellectual property rights. We believe that in order to have a competitive advantage, we must continue to develop and maintain the proprietary aspects of our technologies.

Currently, we have four issued U.S. patents, 12 pending U.S. patent applications, and ten pending foreign patent applications. Our U.S. Patent No. 6,881,229, issued April 19, 2005, is directed to an articulating joint prosthesis having a cobalt chromium head and a cup made from a high strength, high toughness doped silicon nitride ceramic. Our U.S. Patent Nos. 6,846,327, issued January 25, 2005, and 6,790,233, issued September 14, 2004, are directed to a bone graft and spinal fixation cage having a cortico-cancellous structure with a bioactive and resorbable surface coating. Our U.S. Patent No. 6,994,727, issued February 7, 2006, is directed to a novel prosthesis for use in replacing a spinal disc. Our issued patents begin to expire in 2022, with the last of these patents expiring in 2023.

Our pending patent applications are directed to additional aspects of our technologies including, among other things:

- additional embodiments of implants using our *MC²* silicon nitride in one or more implant components;
- additional embodiments of cortico-cancellous structured implants using our *C^SC* technology, including such implants without a bioactive, resorbable coating;
- designs for cervical plates;
- designs for pedicle screws;
- designs for cervical disc implants;
- designs for intervertebral spacers;
- designs for hip implants; and
- designs for knee implants.

We also have exclusively licensed from Dytech Corporation Ltd. three U.S. patents and foreign counterparts, together with related know-how, directed to manufacturing processes for the production of porous ceramics for use in our orthopedic implants. Individual patents extend for varying periods depending on the effective date of filing of the patent application or the date of patent issuance, and the legal term of the patents in the countries in which they are obtained. Generally, since our U.S. patent applications were filed on or after June 8, 1995, our patents issued, and those to be issued, in the United States are effective for 20 years from the earliest effective filing date. The term of our foreign patents will vary in accordance with provisions of applicable local law, but typically will be 20 years from the earliest effective filing date.

We also expect to rely on trade secrets, know-how, continuing technological innovation and in-licensing opportunities to develop and maintain our intellectual property position. However, trade secrets are difficult to protect. We seek to protect the trade secrets in our proprietary technology and processes, in part, by entering into confidentiality agreements with commercial partners, collaborators, employees, consultants, scientific advisors

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and other contractors and into invention assignment agreements with our employees and some of our commercial partners and consultants. These agreements are designed to protect our proprietary information and, in the case of the invention assignment agreements, to grant us ownership of the technologies that are developed.

Industry Competition

The orthopedic implant industry is highly competitive. We believe our main global competitors in the spine implant market include Medtronic Spinal and Biologics, a subsidiary of Medtronic, Inc.; Synthes, Inc.; DePuy Spine, Inc., a subsidiary of Johnson & Johnson; Stryker Spine, a division of Stryker Corporation; Biomet Spine and Biomet Trauma, a subsidiary of Biomet, Inc.; and Zimmer Spine, a subsidiary of Zimmer Holdings, Inc., which, in 2006, together accounted for over 80% of the market. We believe our main competitors in the hip and knee implant market are Zimmer Holdings, Inc.; DePuy Orthopaedics, Inc., a subsidiary of Johnson & Johnson; Stryker Orthopaedics, a division of Stryker Corporation; Biomet, Inc.; and Smith & Nephew Orthopaedics, a subsidiary of Smith & Nephew plc, which, in 2006, together accounted for over 80% of the market.

Competition within the industry is primarily based on technology, innovation, product quality, and the product awareness and acceptance by orthopedic surgeons. Our principal competitors have substantially greater financial, technical and marketing resources, as well as significantly greater manufacturing capabilities, than we do, and they may succeed in developing products that render our products non-competitive. Our ability to compete successfully will depend upon our ability to develop innovative products with advanced performance features based on our ceramic technologies.

We anticipate that orthopedic companies will also seek to introduce new ceramic-based implants to compete with ours. Presently, these companies buy ceramic components from manufacturers such as Ceramtec, Metoxit, Morgan-Matroc, Kyocera and NTK. These companies manufacture and provide ceramic femoral heads on an original equipment manufacturer, or OEM, basis to orthopedic implant companies such as Stryker, DePuy and Zimmer. We will seek to compete with their products based on the performance advantages offered by our silicon nitride-based ceramic technologies.

Government Regulation of Medical Devices

Governmental authorities in the United States, at the federal, state and local levels, and other countries extensively regulate, among other things, the research, development, testing, manufacture, labeling, promotion, advertising, distribution, marketing and export and import of products such as those we are developing. Failure to obtain approval to market our products under development and to meet the ongoing requirements of these regulatory authorities could prevent us from marketing and continuing to market our products.

United States

In the United States, before a new medical device can be marketed, its manufacturer must either obtain marketing clearance through a premarket notification under Section 510(k) of the Federal Food, Drug and Cosmetic Act or marketing approval of a premarket approval application, or PMA. User fees, which increase each year and which are specific for the type of submission that is made, must be paid to the FDA at the time that the 510(k) or PMA is submitted. The information that must be submitted to the FDA in order to obtain clearance or approval to market a new medical device varies depending on how the medical device is classified by the FDA. Medical devices are classified into one of three classes on the basis of the controls deemed by the FDA to be necessary to reasonably ensure their safety and effectiveness. Class I devices are subject to general controls, including labeling, premarket notification and adherence to the quality systems regulation, or QSR, which sets forth device-specific good manufacturing practices. Class II devices are subject to general controls and special controls, including performance standards and post-market surveillance. Class III devices are subject to most of the previously identified requirements as well as to premarket approval.

A 510(k) premarket notification must demonstrate that the device in question is substantially equivalent to another legally marketed device, or predicate device, that does not require premarket approval. In evaluating the

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510(k), the FDA must determine that (i) the device has the same intended use as the predicate device and (ii) has the same technological characteristics as the predicate device, or (a) has different technological characteristics, (b) the data submitted establishes that the device is substantially equivalent and contains information, including clinical data if deemed necessary by the FDA, that demonstrates that the device is as safe and as effective as a legally marketed device and (c) the device does not raise different questions of safety and effectiveness than the predicate device. Most 510(k)s do not require clinical data for clearance, but a minority do require clinical data support. The FDA is supposed to issue a decision letter within 90 days if it has no additional questions or send a first action letter requesting additional information within 75 days; however, the FDA does not always meet the applicable performance goal review time. In addition, requests for additional data, including clinical data, will increase the time necessary to review the notice. Most Class I devices and many Class II devices are exempt from the 510(k) requirement. If the FDA does not agree that the new device is substantially equivalent to the predicate device, the new device will be classified in Class III, and the manufacturer must submit a PMA or may, depending on the nature of the device, petition the FDA to make a risk-based determination of the new device and reclassify the new device in Class I or II. Modifications to a 510(k)-cleared medical device may require the submission of another 510(k) or a PMA if the changes could significantly affect the safety or effectiveness or constitute a major change in the intended use of the device.

Modifications to a 510(k)-cleared device frequently require the submission of a traditional 510(k), but modifications meeting certain conditions may be candidates for FDA review under a Special 510(k). If a device modification requires the submission of a 510(k), but the modification does not affect the intended use of the device or alter the fundamental scientific technology of the device, then summary information that results from the design control process associated with the cleared device can serve as the basis for clearing the application. A Special 510(k) allows a manufacturer to declare conformance to design controls without providing new data. When the modification involves a change in material, the nature of the “new” material will determine whether a traditional or Special 510(k) is necessary. For example, in its Device Advice on How to Prepare a Special 510(k), the FDA uses the example of a change in a material in a finger joint prosthesis from a known metal alloy to a ceramic that has not been used in a legally marketed predicate device as a type of change that should not be submitted as a Special 510(k). However, if the “new” material is a type that has been used in other legally marketed devices within the same classification for the same intended use, a Special 510(k) is appropriate. The FDA gives as an example a manufacturer of a hip implant who changes from one alloy to another that has been used in another legally marketed predicate. Special 510(k)s are typically processed within thirty (30) days of receipt.

The PMA process is more complex, costly and time consuming than the 510(k) clearance procedure. A PMA must be supported by more detailed scientific evidence than a 510(k) notice, including clinical data to demonstrate the safety and efficacy of the device. If the device is determined to present a “significant risk,” the manufacturer may not begin a clinical trial until it submits an investigational device exemption, or IDE, to the FDA and obtains approval from the FDA. Such clinical trials are also subject to the review, approval and oversight of an institutional review board, or IRB, at each institution at which the clinical trial will be performed. The clinical trials must be conducted in accordance with applicable regulations, including but not limited to the FDA’s IDE regulations. Upon completion of the clinical trials, and assuming that the results indicate that the product is safe and effective for its intended use, the manufacturer will then submit a PMA. The FDA has 45 days after a PMA is submitted to determine whether it is sufficiently complete to permit a substantive review. If the PMA is complete, the FDA will file the PMA. The FDA is subject to performance goal review times for PMAs and may issue a decision letter as a first action on a PMA within 180 days of filing, but if it has questions, it will likely issue a first major deficiency letter within 150 days. It may also refer the PMA to an FDA advisory committee for additional review, and will conduct a preapproval inspection of the manufacturing facility to ensure compliance with the QSR, either of which could extend the 180 day target for a response. The FDA may also inspect the investigational sites to ensure compliance with the IDE and other applicable regulations governing the conduct of the trial. While the FDA’s ability to meet its performance goals has generally improved during the past few years, it may not meet these goals in the future. A PMA can take several years to complete and there is no assurance that any submitted PMA will ever be approved. Even when approved, the FDA may

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limit the indication for which the medical device may be marketed or to whom it may be sold. In addition, the FDA may request additional information or request the performance of additional clinical studies as a condition of approval or after the PMA is approved. Changes to the device or its manufacturing process may require the prior approval of a supplemental PMA.

Continuing FDA Regulation

After a device is placed on the market, numerous regulatory requirements apply. These include:

- compliance with the QSR, which require manufacturers to follow design, testing, control, documentation and other quality assurance procedures during the manufacturing process;
- labeling regulations, which prohibit the promotion of products for unapproved or “off-label” uses and impose other restrictions on labeling; and
- medical device reporting regulations, which require that manufacturers report to the FDA if their device may have caused or contributed to a death or serious injury or malfunctioned in a way that would likely cause or contribute to a death or serious injury if it were to recur.

Failure to comply with applicable regulatory requirements can result in enforcement action by the FDA, which may include any of the following sanctions:

- warning letters;
- fines, injunctions, and civil penalties;
- recall or seizure of our products;
- operating restrictions, partial suspension or total shutdown of production;
- refusal to grant 510(k) clearance or PMA approvals of new products;
- withdrawal of 510(k) clearance or PMA approvals; and
- criminal prosecution.

To ensure compliance with regulatory requirements, medical device manufacturers are subject to market surveillance and periodic, pre-scheduled or unannounced inspections by the FDA, and these inspections may include the manufacturing facilities of our subcontractors.

International Regulation

International sales of medical devices are subject to foreign government regulations, which vary substantially from country to country. The time required to obtain approval by a foreign country may be longer or shorter than that required for FDA approval, and the requirements may differ. For example, the primary regulatory authority with respect to medical devices in Europe is that of the European Union, which consists of about twenty-four countries encompassing most of the major countries in Europe. Other countries, such as Switzerland, have voluntarily adopted laws and regulations that mirror those of the European Union with respect to medical devices. The European Union has adopted numerous directives and standards regulating the design, manufacture, clinical trials, labeling, and adverse event reporting for medical devices. Devices that comply with the requirements of a relevant directive will be entitled to bear CE conformity marking, indicating that the device conforms to the essential requirements of the applicable directives and, accordingly, can be commercially distributed throughout the European Union, although actual implementation of these directives may vary on a country-by-country basis. The method of assessing conformity varies depending on the class of the product, but normally involves a combination of self-assessment by the manufacturer and a third-party assessment by a “Notified Body.” This third-party assessment may consist of an audit of the manufacturer’s quality system and specific testing of the manufacturer’s product. An assessment by a Notified Body in one country within the

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European Union is required in order for a manufacturer to distribute the product commercially throughout the European Union.

Compliance with Fraud and Abuse Laws

Once our product candidates are commercialized, we must comply with various U.S. federal and state laws, rules and regulations pertaining to healthcare fraud and abuse, including anti-kickback laws and physician self-referral laws, rules and regulations. Violations of the fraud and abuse laws are punishable by criminal and civil sanctions, including, in some instances, exclusion from participation in federal and state healthcare programs, including Medicare, Medicaid, Veterans Administration health programs, workers' compensation programs and TRICARE. We operate our business to be in material compliance with such laws, rules and regulations.

We have entered into agreements with certain surgeons for assistance with the design of our products, some of whom we anticipate may make referrals to us or order our products. A majority of these agreements contain provisions for the payments of royalties and/or stock options. In addition, some surgeons currently own shares of our stock and other surgeons may be offered shares as part of this offering under our directed share program as described in the "Underwriters" section of this prospectus. These transactions were, and will be, structured with the intention of complying with all applicable laws, including fraud and abuse laws. Despite this intention, the laws in this area are both broad and vague, and it is often difficult or impossible to determine how the laws will be applied. Accordingly, there can be no assurance that a particular government agency or court would determine our practices to be in full compliance with such laws. We could be materially impacted if regulatory or enforcement agencies or courts interpret our financial arrangements with surgeons to be in violation of these fraud and abuse laws.

Anti-Kickback Statute

The federal Anti-Kickback Statute prohibits persons from knowingly or willfully soliciting, receiving, offering or paying remuneration, directly or indirectly, in exchange for or to induce:

- the referral of an individual for a service or product for which payment may be made by Medicare, Medicaid or any other government-sponsored healthcare program; or
- purchasing, ordering, arranging for, or recommending the ordering of, any service or product for which payment may be made by a government-sponsored healthcare program.

The definition of "remuneration" has been broadly interpreted to include anything of value, including such items as gifts, certain discounts, waiver of payments, and providing anything at less than its fair market value. In addition, several courts have interpreted the law to mean that if "one purpose" of an arrangement is intended to induce referrals, the statute is violated.

The Anti-Kickback Statute is broad and prohibits many arrangements and practices that are lawful in businesses outside of the healthcare industry. Recognizing that the Anti-Kickback Statute is broad and may technically prohibit many innocuous or beneficial arrangements, the Office of Inspector General of the Department of Health and Human Services, or OIG, has issued regulations, commonly known as "safe harbors." These safe harbors set forth certain requirements that, if fully met, will assure healthcare providers, including medical device manufacturers, that they will not be prosecuted under the Anti-Kickback Statute. Although full compliance with these safe harbor provisions ensures against prosecution under the Anti-Kickback Statute, full compliance is often difficult and the failure of a transaction or arrangement to fit within a specific safe harbor does not necessarily mean that the transaction or arrangement is illegal or that prosecution under the Anti-Kickback Statute will be pursued. However, conduct and business arrangements that do not fully satisfy each applicable safe harbor may result in increased scrutiny by government enforcement authorities such as the OIG. The statutory penalties for violating the Anti-Kickback Statute include imprisonment for up to five years and criminal fines of up to \$25,000 per violation. In addition, through application of other laws, conduct that violates

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the Anti-Kickback Statute can also give rise to False Claims Act lawsuits, civil monetary penalties and possible exclusion from Medicare and Medicaid and other federal healthcare programs. In addition to the Federal Anti-Kickback Statute, many states have their own anti-kickback laws. Often, these laws closely follow the language of the federal law, although they do not always have the same scope, exceptions, safe harbors or sanctions. In some states, these anti-kickback laws apply not only to payment made by a government health care program but also with respect to other payors, including commercial insurance companies.

One form of a financial arrangement that is subject to the Anti-Kickback Statute and other fraud and abuse laws is the so-called gainsharing program. While there is no fixed definition of gainsharing, the term typically refers to an arrangement in which a hospital gives physicians a share of any reduction in the hospital's costs attributable in part to the physician's efforts. Such cost reduction activities may relate to certain surgical procedures and surgeons may be asked to select less expensive devices to use in their surgeries, with the surgeons then sharing in the cost savings to the hospital.

Government officials have focused recent kickback enforcement efforts on, among other things, the sales and marketing activities of healthcare companies, including medical device manufacturers, and recently have brought cases against individuals or entities with personnel who allegedly offered unlawful inducements to potential or existing customers in an attempt to procure their business. This trend is expected to continue. Settlements of these cases by healthcare companies have involved significant fines and/or penalties and in some instances criminal plea agreements. We are also aware of governmental investigations of some of the largest orthopedic device companies reportedly focusing on consulting and service agreements between these companies and orthopedic surgeons. These developments are ongoing and we cannot predict the effects they will have on our business.

Physician Self-Referral Laws

The federal ban on physician self-referrals, commonly known as the "Stark Law," prohibits, subject to certain exceptions, physician referrals of Medicare and Medicaid patients to an entity providing certain "designated health services" if the physician or an immediate family member of the physician has any financial relationship with the entity. The Stark Law also prohibits the entity receiving the referral from billing for any good or service furnished pursuant to an unlawful referral, and any person collecting any amounts in connection with an unlawful referral is obligated to refund these amounts. A person who engages in a scheme to circumvent the Stark Law's referral prohibition may be fined up to \$100,000 for each such arrangement or scheme. The penalties for violating the Stark Law also include civil monetary penalties of up to \$15,000 per service and possible exclusion from federal healthcare programs. In addition to the Stark Law, many states have their own self-referral laws. Often, these laws closely follow the language of the federal law, although they do not always have the same scope, exceptions, safe harbors or sanctions. In some states these self-referral laws apply not only to payment made by a federal health care program but also with respect to other payors, including commercial insurance companies. In addition, some state laws require physicians to disclose any financial interest they may have with a healthcare provider to their patients when referring patients to that provider even if the referral itself is not prohibited.

Other Fraud and Abuse Laws

The federal False Claims Act, or FCA, prohibits any person from knowingly presenting, or causing to be presented, a false claim or knowingly making, or causing to be made, a false statement to obtain payment from the federal government. Those found in violation of the FCA can be subject to fines and penalties of three times the damages sustained by the government, plus mandatory civil penalties of between \$5,500 and \$11,000 for each separate false claim. Actions filed under the FCA can be brought by any individual on behalf of the government, a *qui tam* action, and this individual, known as a "relator" or, more commonly, as a "whistleblower," may share in any amounts paid by the entity to the government in damages and penalties or by way of settlement. In addition, certain states have enacted laws modeled after the FCA, and this legislative

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activity is expected to increase. *Qui tam* actions have increased significantly in recent years, causing greater numbers of healthcare companies, including medical device manufacturers, to defend false claim actions, pay damages and penalties or be excluded from Medicare, Medicaid or other federal or state healthcare programs as a result of investigations arising out of such actions.

The OIG also has authority to bring administrative actions against entities for alleged violations of a number of prohibitions, including the Anti-Kickback Statute and the Stark Law. The OIG may seek to impose civil monetary penalties or exclusion from the Medicare, Medicaid and other federal healthcare programs. Civil monetary penalties can range from \$2,000 to \$50,000 for each violation or failure plus, in certain circumstances, three times the amounts claimed in reimbursement or illegal remuneration. Typically, exclusions last for five years.

In addition, we must comply with a variety of other laws, such as laws prohibiting false claims for reimbursement under Medicare and Medicaid and laws prohibiting gainsharing programs, all of which can also be triggered by violations of federal anti-kickback laws; the Health Insurance Portability and Accounting Act of 1996, which makes it a federal crime to commit healthcare fraud and make false statements; and the Federal Trade Commission Act and similar laws regulating advertisement and consumer protections.

Third-Party Reimbursement

Because we expect to receive payment directly from hospitals and surgical centers, we do not anticipate relying directly on payment for any of our products from third-party payors, such as Medicare, Medicaid, private insurers and managed care companies. However, our business will be affected by policies administered by federal and state governmental authorities, such as Medicare and Medicaid, as well as private payors, which often follow the policies of these public programs. For example, our business will be indirectly impacted by the ability of a hospital or medical facility to obtain coverage and third-party reimbursement for procedures performed using our products. These third-party payors may deny reimbursement if they determine that a device used in a procedure was not medically necessary, was not used in accordance with cost-effective treatment methods, as determined by the third-party payor, or was used for an unapproved indication. For example, on May 16, 2006, the Centers for Medicare and Medicaid Services issued a national coverage decision denying Medicare coverage for DePuy's CHARITE™ prosthetic intervertebral disc implant for patients over 60 years old. This national coverage decision is under reconsideration and a decision is expected later this year. A national coverage decision denying Medicare coverage could result in private insurers and other third party payors denying coverage for this and similar products.

For inpatient and outpatient spine fracture reduction procedures, including those that will involve use of our products once approved, Medicare reimburses hospitals at a prospectively determined amount, called diagnosis related groups, or DRGs, for inpatient treatment and ambulatory payment classifications for outpatient treatment. Each of these DRG codes is associated with a level of payment and is adjusted from time to time, usually annually. DRG payments are intended to cover most of the non-physician hospital costs incurred in connection with the applicable diagnosis and related procedures. Implant products, such as those we plan to sell, represent part of the total procedure costs, while labor, hospital room and board and other supplies and services represent the balance of those costs. However, the DRG payment amounts are typically set independently of a particular hospital's actual cost for treating a patient and implanting a device. Thus, the payments that a hospital would receive for a particular procedure would not typically be based on the cost of our products.

Medicare has established a number of DRGs for inpatient procedures that involve the use of products similar to ours. Although Medicare has authority to create special DRGs for hospital services that more properly reflect the actual costs of expensive or new-technology devices implanted as part of a procedure, it has recently declined to do so for DePuy's CHARITE™ prosthetic intervertebral disc implant.

We believe that orthopedic implants generally have been well received by third-party payors because of the ability of these implants to greatly reduce long-term health care costs for patients with degenerative joint disease. However, coverage and reimbursement policies vary from payor to payor and are subject to change. As discussed

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above, hospitals that purchase medical devices for treatment of their patients generally rely on third-party payors to reimburse all or part of the costs and fees associated with the procedures performed with these devices. Both government and private third-party coverage and reimbursement levels are critical to new product acceptance. Neither hospitals nor spine surgeons are likely to use our products if they do not receive reimbursement adequate to cover the cost of these procedures.

While it is expected that hospitals will be able to obtain coverage for procedures using our products, the level of payment available to them for such procedures may change over time. Governmental payors such as Medicare and Medicaid closely regulate provider payment levels and have sought to contain, and sometimes reduce, payment levels. Commercial payors and managed care plans frequently follow government payment policies, and are likewise interested in controlling increases in the cost of medical care. These third-party payors may deny payment if they determine that a procedure was not medically necessary, a device used in a procedure was not used in accordance with cost-effective treatment methods, as determined by the third-party payor, or was used for an unapproved indication.

In addition, some payors are adopting pay-for-performance programs that differentiate payments to health care providers based on the achievement of documented quality-of-care metrics, cost efficiencies, or patient outcomes. These programs are intended to provide incentives to providers to find ways to deliver the same or better results while consuming fewer resources. As a result of these programs, and related payor efforts to reduce payment levels, hospitals and other providers are seeking ways to reduce their costs, including the amounts they pay to medical device suppliers. Adverse changes in payment rates by payors to hospitals could adversely impact our ability to market and sell our products and negatively affect our financial performance.

In international markets, healthcare payment systems vary significantly by country and many countries have instituted price ceilings on specific product lines. There can be no assurance that our products will be considered cost-effective by third-party payors, that reimbursement will be available or, if available, that the third-party payors' reimbursement policies will not adversely affect our ability to sell our products profitably.

Member countries of the EU offer various combinations of centrally financed health care systems and private health insurance systems. The relative importance of government and private systems varies from country to country. The choice of devices is subject to constraints imposed by the availability of funds within the purchasing institution. Medical devices are most commonly sold to hospitals or health care facilities at a price set by negotiation between the buyer and the seller. A contract to purchase products may result from an individual initiative or as a result of a competitive bidding process. In either case, the purchaser pays the supplier, and payment terms vary widely throughout the EU. Failure to obtain favorable negotiated prices with hospitals or health care facilities could adversely affect sales of our products.

Employees

As of May 14, 2007, we had 33 full-time employees, including three who hold Ph.D. degrees. Of our 33 employees, five are employed in administration, 26 in manufacturing and research and development, and two in sales and marketing. We believe that our success will depend, in part, on our ability to attract and retain qualified personnel. We have never experienced a work stoppage due to labor difficulties and believe that our relations with our employees are good. None of our employees is represented by a labor union.

Legal Matters

We are currently not a party to any material legal proceedings.

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Facilities

Our corporate office and our manufacturing facilities are located in Salt Lake City, Utah. We believe that our existing facilities are adequate for our current needs. The table below provides selected information regarding our facilities, all of which are leased.

<u>Location</u>	<u>Use</u>	<u>Approximate Square Footage</u>	<u>Lease Expiration</u>
Salt Lake City, Utah	Corporate headquarters, research and development and administrative offices	9,505	August 2009
Salt Lake City, Utah	Manufacturing	17,439	April 2011

Plan of Operations

We believe that the net proceeds from our initial public offering, our anticipated future revenue and our cash, cash equivalent marketable securities balances and interest we earn on these balances, will be sufficient to meet our anticipated cash requirements through the end of 2009. During the period between the date of this prospectus and June 30, 2008, ignoring the impact of potential revenue resulting from sales of three of our lead spinal implant products before June 30, 2008, we believe that it will not be necessary to raise additional funds to meet the expenditures required to operate our business, including expenditures for:

- building sales, marketing and distribution capabilities for our spinal implant products in anticipation of commercialization of some of our lead spinal products, which we plan to launch beginning in the first half of 2008;
- the scale-up of our manufacturing operations to commercial level;
- the continuation of our research and development activities on our pipeline of products in development;
- expenditures relating to our compliance with applicable laws and regulations associated with being a publicly traded company; and
- expenditures relating to our seeking regulatory clearance and approval of our lead products, including the commencement of clinical testing of some of our lead products.

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MANAGEMENT

Directors and Executive Officers

Our directors and executive officers and their respective ages and positions as of May 1, 2007 are as follows:

<u>Name</u>	<u>Age</u>	<u>Position</u>
Max Link, Ph.D. ⁽¹⁾⁽²⁾	66	Chairman of the Board of Directors
Ashok C. Khandkar, Ph.D.	50	Director and Chief Executive Officer
Aaron A. Hofmann, M.D.	57	Director
Lawrence D. Dorr, M.D. ⁽³⁾	66	Director
Gregg R. Honigblum	44	Director
Rohit Patel ⁽¹⁾⁽²⁾⁽³⁾	66	Director
Bradford S. Goodwin ⁽¹⁾⁽³⁾	52	Director
Warionex (“Jose”) Belen	57	President
Bryan J. McEntire	55	Vice President of Manufacturing and Research
Reyn E. Gallacher	43	Vice President of Finance, Chief Financial Officer and Assistant Secretary
Kenneth W. Ludwig, Jr.	55	Vice President of Marketing
Robert M. Wolfarth	44	Director of Regulatory Affairs and Quality Assurance

(1) Member of our audit committee

(2) Member of our nominating and corporate governance committee

(3) Member of our compensation committee

The following is a brief summary of the background of each of our directors and executive officers.

Max Link, Ph.D. has served as the Chairman of our board of directors since October 2003. Dr. Link served as Chairman of the Board and Chief Executive Officer of Centerpulse AG, the largest orthopedics company in Europe, from March 2002 until October 2003, when Centerpulse was acquired by Zimmer Holdings, Inc. Prior to joining Centerpulse, Dr. Link served as the Chief Executive Officer at Corange Limited/Boehringer Mannheim and as Chairman and Chief Executive Officer at Sandoz Pharmaceuticals (now part of Novartis). Since 1994, Dr. Link has been actively involved as a director in development stage companies in the healthcare and biopharmaceutical field both in the United States and in Europe, including Human Genome Sciences, Inc., Alexion Pharmaceuticals, Inc., Celsion Corporation and Discovery Laboratories, Inc. Dr. Link received his Ph.D. in economics from the University of St. Gallen, Switzerland in 1970.

Ashok C. Khandkar, Ph.D. is our co-founder and has been a member of our board of directors since 1996. Dr. Khandkar has been our Chief Executive Officer since we hired him for that position in February 2000. He also served as our President from September 2003 through December 2006. Dr. Khandkar has more than 20 years of experience in senior managerial positions in ceramics development and manufacturing with responsibility for finance, strategic planning and business development. Dr. Khandkar is an inventor on 24 U.S. and international patents. Prior to becoming our Chief Executive Officer, Dr. Khandkar served as a Vice President with Ceramatec, where he started its oxide fuel cell program. He also served as Chief Technology Officer of SOFCo, a joint venture between McDermott Inc. and Ceramatec, where he managed a multi-disciplinary team of engineers, scientists, and manufacturing professionals. Dr. Khandkar has authored more than 30 papers related to ceramics technology. He has served as the vice-chair of the High Temperature Materials Division of the Electrochemical Society and is an Adjunct Associate Professor in the Materials Science and Engineering Department of the University of Utah in Salt Lake City, Utah. Dr. Khandkar earned his Ph.D. in materials science from Arizona State University in 1985.

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Aaron A. Hofmann, M.D. is our co-founder and has been a member of our board of directors since 1996. Dr. Hofmann is a nationally and internationally recognized orthopedic surgeon, known for his accomplishments in developing total hip and knee replacement systems, innovative surgical approaches in hip and knee surgery and basic research on human bone dynamics. Dr. Hofmann holds 14 patents, many of which are directed at inventions involving hip and knee implants. Since 2003, Dr. Hofmann has been a design surgeon for Zimmer Holdings, Inc., the largest orthopedics company in the world. Dr. Hofmann, working with a team of orthopedic surgeons, helped design Zimmer's new gender knee specifically designed for women. Since 1992, Dr. Hofmann has been a Professor of Orthopedic Surgery at the University of Utah School of Medicine and Chief of Orthopedics for the Veteran Affairs Medical Center in Salt Lake City, Utah since 1988. He earned his M.D. at the Southwestern Medical School in Dallas, Texas, was a resident at Parkland Memorial Hospital in Dallas, Texas, and a Joint Reconstruction Fellow at the Montreal General Hospital. Dr. Hofmann is a diplomate of the American Board of Orthopaedic Surgery and an active member of the American Orthopaedic Association, the American Academy of Orthopaedic Surgeons, the Orthopaedic Research Society, the Society for Arthritic Joint Surgery and the Knee Society.

Lawrence D. Dorr, M.D. has been a member of our board of directors since November 2006. Dr. Dorr is a nationally and internationally recognized orthopedic surgeon, known for his accomplishments in developing total hip and knee replacement systems, innovative minimally invasive surgical approaches and basic research on human bone dynamics. Dr. Dorr founded The Arthritis Institute in February 2001 and has been its Medical Director since then, performing more than 3,500 hip and knee replacements in the past decade. Prior to that he established the Arthritis Service at the Kerlan-Jobe Orthopaedic Clinic in 1983, and later founded the Center for Arthritis and Joint Implant Surgery at the University Hospital at the University of Southern California in 1992. Dr. Dorr served as the President of the American Association of Hip and Knee Surgeons, or AAHKS, from 1993 to 1994 and is the incoming President of the Hip Society in November 2007. Dr. Dorr received the Lifetime Humanitarian Award from the AAOS for Operation Walk in 2005. Dr. Dorr earned his medical degree and master's degree from the University of Iowa. He completed his residency at the L.A. County-University of Southern California Medical Center, where he later served as a full-time teaching member of the Department of Orthopaedics at the University of Southern California.

Gregg R. Honigblum has been a member of our board of directors since December 2006. Mr. Honigblum has more than 20 years of experience as a financier for emerging growth companies primarily in the healthcare area. He has been instrumental in providing early stage financing for companies such as Myriad Genetics, Inc. and Acacia Biosciences, Inc., which merged with Rosetta Inpharmatics, Inc. and is now a wholly owned subsidiary of Merck. Since 2001, Mr. Honigblum has been the Chief Executive Officer and founder of Creation Capital LLC, an investment banking firm specializing in the financing and development of early stage medical device and biotechnology companies. Creation Capital has served as the placement agent for our private financings and has provided, through its client base, more than \$44 million of equity capital. Mr. Honigblum holds a B.A. in economics from the University of Texas at Austin.

Rohit Patel has been a member of our board of directors since 2003 and an advisor to Amedica since its inception. Since May 2004, Mr. Patel served as the Chief Executive Officer of Ellis, Inc., a technology company developing and marketing English language learning software until retiring from Ellis in October 2006 after successfully transitioning the company to its new owner, Pearson Publishing. Prior to joining Ellis, from 2002 to 2004, he served as a consultant to NIIT, Ltd. of India and Ellis. From September 1996 to December 2001, Mr. Patel served as President of BNA Communications, Inc. and Executive Director of BNA Inc. and was responsible for three of its publishing divisions. BNA, Inc. is a leading publisher of information and analysis products for professionals in law, tax, business, and government based in Washington, D.C. and is the largest employee-owned company in the United States. From 1987 to 1995, Mr. Patel held various positions, including Chief Executive Officer, with Wicat Systems, Inc., a global developer of flight training and desk-top simulation software. Mr. Patel has an M.B.A. from Michigan State University and a M.S. in engineering from the University of Wisconsin.

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Bradford S. Goodwin has been a member of our board of directors since May 2007. Mr. Goodwin is currently a director of PDL BioPharma and Rigel, Inc. He was the Chairman of the Board of CoTherix, Inc., a publicly traded company focused on pulmonary arterial hypertension, until its sale to Actelion Pharmaceuticals in early 2007. From 2001 to 2006, Mr. Goodwin was Chief Executive Officer and Director of Novacea, Inc., a publicly traded biopharmaceutical company focused on in-licensing, developing and commercializing novel therapies for cancer. From April 2000 to July 2001, Mr. Goodwin was President, Chief Operating Officer and founder of Collabra Pharma, a company focused on pharmaceutical product licensing and development. From April 1987 to February 2000, he held various senior executive positions with Genentech, Inc., including Vice President of Finance, and was responsible for treasury, purchasing, risk management, real estate, controllership, tax and long-range planning. For ten years prior to joining Genentech, Mr. Goodwin worked at Price Waterhouse LLP, now PricewaterhouseCoopers LLP, as a certified public accountant, serving ultimately as Senior Audit Manager. Mr. Goodwin also served on expert advisory committees of the American Institute of Certified Public Accountants, the Financial Accounting Standards Board and the International Accounting Standards Board. Mr. Goodwin holds a B.S. in business administration from the University of California, Berkeley.

Warionex ("Jose") Belen has served as our President since December 2006. Mr. Belen held the position of Vice President of Products from May 2005 until December 2006. Mr. Belen has 34 years of experience in the orthopedics industry in engineering, marketing and national sales accounts. For 22 years prior to joining Amedica, Mr. Belen held various positions with Centerpulse AG prior to its acquisition by Zimmer Holdings, Inc. Prior to joining Amedica, until April 2005, he served as Director of Surgeon Consulting Services for Centerpulse, where he formalized product development agreements and managed surgeons who were members of Centerpulse AG's product development teams.

Bryan J. McEntire has served as our Vice President of Manufacturing since August 2004 and as our Vice President of Research since December 2006. Mr. McEntire has more than 30 years of experience in advanced ceramic product development, quality engineering and manufacturing. Prior to joining Amedica, Mr. McEntire served as a senior director of supply chain management at Applied Materials in Silicon Valley from April 1998 to August 2004, where he managed the supply chain, which included the negotiation of supply contracts, and supervision of vendor production of various parts, including precision ceramic parts, which were integrated into the capital equipment made and sold by Applied Materials. Prior to joining Applied Materials, he was the General Manager of Norton Advanced Ceramics, a division of Saint-Gobain Industrial Ceramics Corporation, from 1993 to 1998, where he managed four ceramic product manufacturing plants in the United States.

Reyn E. Gallacher joined Amedica in January 2006 as our Controller, and has served as our Vice President of Finance since January 2007, and as our Chief Financial Officer and Assistant Secretary since March 2007. Mr. Gallacher has more than 20 years of financial and management experience working with both public and private companies, with responsibilities for financings as well as mergers and acquisitions. Prior to joining Amedica, Mr. Gallacher served as an internal auditor with Deseret Management Corporation from 2004 to 2006. Mr. Gallacher served as the Corporate Controller of AMI Semiconductor, a publicly traded semiconductor company, from 2003 to 2004. Mr. Gallacher also was the Corporate Controller of Pharmadign, Inc. from 2001 to 2003 and TrainSeek, Inc. from 2000 to 2001. From 1994 to 1999, Mr. Gallacher served in various financial and business management capacities with TheraTech, Inc., a transdermal drug delivery company, playing a key role with the due diligence and valuation work completed as part of the acquisition of TheraTech by Watson Pharmaceuticals. From 1987 to 1994, Mr. Gallacher served in various roles, most recently as a senior manager with KPMG in both their Salt Lake City, Utah and Montvale, New Jersey offices. While with KPMG, Mr. Gallacher specialized in working with small to mid-size companies in the health care and high technology industries. Mr. Gallacher holds a B.S. in accounting from the University of Utah and an M.B.A. from Weber State University.

Kenneth W. Ludwig, Jr. joined Amedica in May 2006 with 25 years of experience in the orthopedics devices industry, and 32 years of overall medical industry experience. In December 2006, Mr. Ludwig was promoted as our Vice President of Marketing. From 2001 to May 2006, he served as Vice President, Orthopedics at Aesculap, Inc. Between 1992 and 2001, Mr. Ludwig served as Vice President, Marketing and Vice President, Sales and Marketing - Spine at Encore Orthopedics, of which he was a co-founder. Mr. Ludwig began his career with

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Howmedica in the early 1980's and subsequently joined Intermedics Orthopedics in 1984. Mr. Ludwig earned a B.S. in biology from St. Lawrence University in 1974.

Robert M. Wolfarth has served as our Director of Regulatory Affairs and Quality Assurance since January 2005. From March 2003 to December 2004, Mr. Wolfarth was the Regulatory Affairs Programs Manager at Centerpulse Orthopedics, prior to its acquisition by Zimmer Holdings, Inc., where he was responsible for worldwide regulatory submissions. From March 2000 to March 2003, Mr. Wolfarth was the Regulatory Affairs Manager at Ascension Orthopedics where he was responsible for worldwide regulatory submissions and compliance. He has more than 14 years experience working in the medical devices industry, primarily with respect to large- and small-joint orthopedics, in addition to cardiovascular and medical imaging applications.

Surgeon Advisors

We have engaged surgeon advisors to assist us in designing implants to improve the management of spinal, hip and knee arthritic and trauma disorders. The surgeons are well-known and respected in the spinal and reconstructive orthopedic community. Their works are published in peer reviewed journals, and they frequently serve on the faculty at many society meetings throughout the year. We consult with these surgeons as needed.

The following individuals are our spinal surgeon advisors:

- Jean-Jacques Abitbol, M.D.
- Scott D. Boden, M.D.
- Darrel S. Brodke, M.D.
- Andrew T. Dailey, M.D.
- Gregg S. Gurwitz, M.D.
- Alan S. Hilibrand, M.D.
- Carl Lauryssen, M.D.
- Harvinder S. Sandhu, M.D.
- Jeffrey C. Wang, M.D.
- James A. Youssef, M.D.

The following individuals are our reconstructive surgeon advisors:

- B. Sonny Bal, M.D.
- Michael P. Bolognesi, M.D.
- Steven T. Lyons, M.D.
- Rodney L. Plaster, M.D.

Jean-Jacques Abitbol, M.D. is an advisor for our ceramic spinal implants. Dr. Abitbol is in private practice and is the co-founder of California Spine Group in San Diego, California. He is a former President of the North American Spine Society and the Federation of Spine Associations. Dr. Abitbol has received several awards, including the Cervical Spine Research Society Award for Outstanding Spine Research, the AME Traveling Fellowship Award from the University of Toronto, the Young Investigator Award from the Orthopaedic Research Society, and the Outstanding Spine Research Award from the North American Spine Society AcroMed. He has contributed to more than 27 book chapters, published 36 articles in peer-reviewed journals, and presented 24 abstracts and eight exhibits in the area of spine treatment. He also is an editorial reviewer for the journal *Spine*.

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B. Sonny Bal, M.D. is an advisor for our ceramic hip and knee implants. Dr. Bal is an Assistant Professor of Orthopaedic Surgery at the University of Missouri, Columbia, specializing in hip and knee replacement surgery. He also is an Adjunct Professor of Material Sciences at the University of Missouri at Rolla. Dr. Bal received his M.D. from Cornell University and an M.B.A. from Northwestern University, and is a member of the American Academy of Orthopaedic Surgeons and the American Association of Hip and Knee Surgeons.

Scott D. Boden, M.D. is an advisor for our pedicle screw system. Dr. Boden is an internationally recognized orthopaedic surgeon who has served as the Director of the Emory Orthopaedics and Spine Center in Atlanta, Georgia since January 1, 2004. He is a member of many medical societies and editorial boards and serves on the board of several medical societies. Dr. Boden has received numerous honors and awards in his field. Dr. Boden also holds several patents relating to his specialty. Dr. Boden has performed research focusing on three principal areas. One of those areas is cell/molecular biology of osteoblast differentiation, including the study of the mechanism of action of bone growth factors (BMPs) and regional bone gene therapy. The second area in which Dr. Boden has performed significant research focuses on various animal models of spine fixation in an effort to better understand the biology of the healing process and the efficacy of various bone graft substitutes. The third area that Dr. Boden has studied focuses on clinical outcomes relating to spinal disorders, diagnostic imaging and the utilization of health care resources.

Michael P. Bolognesi, M.D. is an advisor for our ceramic hip and knee implants. Dr. Bolognesi is a nationally recognized orthopedic surgeon who specializes in the practice of total joint reconstruction surgery. He also is an Assistant Professor of Surgery at Duke University Medical Center in Durham, North Carolina, where he instructs medical students, residents and fellows in total hip and knee replacement and revision surgery, computer assisted orthopedic surgery, and minimally invasive hip and knee replacement surgery. Dr. Bolognesi received his M.D. from Duke University School of Medicine and served as a resident at Duke University Medical Center. Dr. Bolognesi completed his fellowship training in orthopedic surgery at the University of Utah Medical Center. He has authored many papers on orthopedic surgery and joint reconstruction related topics, presented at national meetings and frequently lectures on the treatment of joint disease. Dr. Bolognesi is an active member of the American Association of Orthopaedic Surgeons, the American Association of Hip and Knee Surgeons and the North Carolina Orthopaedic Association. He has received the Eastern Orthopaedic Association Resident Travel Award, the John Harrelson Chief Resident Teaching Award and the Zimmer Career Development Award.

Darrel S. Brodke, M.D. is an advisor for our ceramic spinal implants. Dr. Brodke is a recognized expert in the field of spine surgery. He also is an Associate Professor in the Department of Orthopedics, University of Utah School of Medicine, and is the Chief of the Spine Service and Medical Director of the University Spine Center. Dr. Brodke is a fellow of the American Academy of Orthopedic Surgery and an active member of the American Medical Association, the North American Spine Society and the Cervical Spine Research Society.

Andrew T. Dailey, M.D. is an advisor for our ceramic spinal implants. Dr. Dailey is Associate Professor in the Department of Neurological Surgery at the University of Utah. Prior to that he was an Associate Professor in the Department of Neurosurgery at the University of Washington and also practiced at Swedish Medical Center in Seattle, Washington, where he specialized in the surgical treatment of cervical, thoracic and lumbar disorders. He completed his residency and fellowship training at the University of Washington. Dr. Dailey is a member of the American Association of Neurological Surgeons, the North America Spine Society and AO North America. Dr. Dailey has authored papers in peer reviewed publications, including *Neurosurgery*, *Journal of Neurosurgery*, *Journal of Bone and Joint Surgery* and *Clinical Orthopedics*.

Gregg S. Gurwitz, M.D. is an advisor for our ceramic spinal implants. Dr. Gurwitz is an active orthopedic surgeon in San Antonio, Texas, who specializes in treating spinal disease. He completed medical school at Southwestern University in Dallas, Texas, and served as an orthopaedic surgery resident at Vanderbilt University in Nashville, Tennessee. Dr. Gurwitz is an Associate Clinical Professor of Orthopaedic Surgery at the University of Texas Health Science Center at San Antonio. He is a diplomate of the American Board of Orthopaedic Surgery and a fellow of the American Academy of Orthopaedic Surgeons as well as a member of the North American Spine Society. During his 13 years in clinical practice and 10 years of training, Dr. Gurwitz has

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authored many papers on orthopedic surgery and spinal related topics, presented at national meetings and frequently lectures on the treatment of spinal disease.

Alan S. Hilibrand, M.D. is an advisor for our ceramic spinal implants. Dr. Hilibrand is an Associate Professor of Orthopaedic Surgery and Neurosurgery and is the Director of Orthopedic Medical Education at Jefferson Medical College and The Rothman Institute, both in Philadelphia, Pennsylvania. He is a fellow of the American Academy of Orthopedic Surgeons and a member of the American Orthopaedic Association. Dr. Hilibrand also is the Chairman of the Research Committee of the Cervical Spine Research Society and an active member of the North American Spine Society and the International Society for Study of the Lumbar Spine. Dr. Hilibrand has authored more than 70 peer-reviewed publications and has spoken nationally and internationally on spinal disorders.

Carl Lauryszen, M.D. is an advisor for our ceramic spinal implants. Dr. Lauryszen is a nationally recognized neurosurgeon who specializes in spine treatment and surgery at the Olympia Medical Center in Beverly Hills, California. Prior to that he was an Associate Professor in the Department of Neurological Surgery at Washington University School of Medicine, St. Louis, Missouri and directed the advanced neurosurgical spine program at Barnes-Jewish Hospital in St. Louis, Missouri. Dr. Lauryszen completed his medical school training at the University of Cape Town, South Africa, and served as a resident at University of Calgary, Alberta, Canada and the University of Alabama in Birmingham, Alabama. He has conducted significant research focusing on traumatic spinal cord injury, cervical spondylotic myelopathy, and minimally invasive procedures. Dr. Lauryszen has received the Young Investigator Award from the Neurologic Surgeon's Society.

Steven T. Lyons, M.D. is an advisor for our ceramic hip and knee implants. Dr. Lyons is a board certified orthopaedist in private practice with the Florida Orthopaedic Institute in Tampa, Florida, specializing in total hip and knee replacement surgery. He received his M.D. from Rush University School of Medicine in Chicago, Illinois, and served as a general surgery internship and orthopaedic surgery resident at Wayne State University Medical Center in Detroit, Michigan. He also was a total joint fellow under Dr. Hofmann at the University of Utah. Dr. Lyons is a diplomate of the National Board of Medical Examiners and is an active member of the American Academy of Orthopaedic Surgeons and the Florida Orthopaedic Society. He also has authored numerous papers on total joint replacement surgery and related topics, has presented at national meetings and frequently lectures on the treatment of joint disease. Dr. Lyons advises and consults with several medical device manufacturers.

Rodney L. Plaster, M.D. is an advisor for our ceramic hip and knee implants. Dr. Plaster is the Director of the Eastern Oklahoma Orthopedic Total Joint Center in Tulsa, Oklahoma and an Assistant Adjunct Professor at the University of Utah Medical Center. He completed his fellowship training at the University of Utah Medical Center. Dr. Plaster has authored many papers on orthopedic surgery and related topics, presented at national meetings and frequently lectures on the treatment of lower joint diseases. Dr. Plaster is a member of the American Academy of Orthopedic Surgeons.

Harvinder S. Sandhu, M.D. is an advisor for our pedical screw system and our bone-plate system. Dr. Sandhu is an Attending Spine Surgeon at the Hospital for Special Surgery and Cornell Medical Center in New York City where he specializes in the surgical treatment of cervical, thoracic and lumbar disorders. He also is the Director of the Spine and Scoliosis Fellowship at the Hospital for Special Surgery. Dr. Sandhu is an active scientist in the Clinical Research division of the institution and teaches medical students, residents and fellows on state-of-the-art techniques in spinal surgery. Prior to joining the Hospital for Special Surgery, Dr. Sandhu was the Chief of the Spine Surgery section of the Department of Orthopaedic Surgery at the University of California, Los Angeles, or UCLA, Medical Center. Dr. Sandhu completed his residency at the State University of New York and fellowship training in spinal surgery at UCLA. He also received an M.B.A. from the Columbia University School of Business. Dr. Sandhu has performed extensive research in the area of bone biology and spinal fixation with an emphasis on methods of stimulating successful fixation. His work led to the commercialization of InFuse Bone Graft Substitute, a highly successful orthobiologic product. Dr. Sandhu has received research awards from the North American Spine Society, the Orthopaedic Research Society and the International Society for the Study

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of the Lumbar Spine. He has published more than 70 peer-reviewed scientific articles and lectures frequently at national and international symposia. Dr. Sandhu advises and consults with several medical device manufacturers.

Jeffrey C. Wang, M.D. is an advisor for our ceramic spinal implants. Dr. Wang is a nationally recognized expert in the field of spine surgery. He is the Chief of Spine Service of the Department of Orthopedic Surgery at the UCLA School of Medicine; the Director of the Orthopedic Spine Fellowship with the Center for Health Sciences at UCLA; a co-Director of the UCLA Spine Center; and Chief of the Spine Service at the West Los Angeles Veterans Administration, California. He is also an Associate Professor of Orthopaedics and Neurosurgery at the UCLA School of Medicine, and serves on the board of directors of the North American Spine Society and on the Editorial Committee of *SpineLine* magazine.

James A. Youssef, M.D. is an advisor for our ceramic spinal implants. Dr. Youssef is a recognized expert in the field of spine surgery. He received his M.D. at University of California, Irvine School of Medicine in 1991. Dr. Youssef completed his internship in general surgery at Oregon Health Sciences University in 1992 and his residency in orthopedic surgery at Dartmouth-Hitchcock Medical Center in 1996. He completed his Spine fellowship at the University of California, Davis Medical Center in 1997. Dr. Youssef is the co-founder of SpineColorado and a senior partner in Durango Orthopedic Assoc., P.C. He also is a fellow of the American Academy of Orthopedic Surgery and an active member of the American Medical Association, the North American Spine Society and the Orthopedic Trauma Association.

Board Composition

Our amended and restated certificate of incorporation and amended and restated bylaws provide that the authorized number of directors may be changed only by resolution of the board of directors. Seven directors are currently authorized. In accordance with our amended and restated certificate of incorporation, immediately upon the closing of this offering, our board of directors will be divided into three classes with staggered three-year terms. At each annual meeting of stockholders following this offering, the successors to the directors whose terms then expire will be elected to serve until the third annual meeting following the election. At the closing of this offering, our directors will be divided among the three classes as follows:

- The Class I directors will be _____, and their terms will expire at the annual meeting of stockholders to be held in 2008;
- The Class II directors will be _____, and their terms will expire at the annual meeting of stockholders to be held in 2009; and
- The Class III directors will be _____, and their terms will expire at the annual meeting of stockholders to be held in 2010.

Any additional directorships resulting from an increase in the number of directors will be distributed among the three classes so that, as nearly as possible, each class will consist of one-third of the directors.

Director Independence

Our board of directors has reviewed the materiality of any relationship between us and each of our directors, either directly or indirectly. Based on this review, the board has determined that Max Link, Ph.D., Aaron A. Hofmann, M.D., Lawrence D. Dorr, M.D., Rohit Patel and Bradford S. Goodwin are “independent directors” as defined by the SEC and NASDAQ. The rules of The NASDAQ Global Market require that a majority of the board of directors of a listed company consist of independent directors, as defined by the rules of The NASDAQ Global Market. We currently have a board of directors consisting of a majority of independent directors.

Committees of the Board of Directors

Our board of directors has an audit committee, a compensation committee and a nominating and corporate governance committee, each of which has the composition and responsibilities described below. The rules of The

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NASDAQ Global Market require that the audit committee consist of at least three members of our board of directors, each of whom must be independent, as established under the rules of The NASDAQ Global Market and the SEC.

Audit Committee

Our audit committee is composed of Bradford S. Goodwin (Chairman), Max Link, Ph.D. and Rohit Patel, each of whom is independent within the meaning of the rules of the SEC and the listing standards of The NASDAQ Global Market. Our board of directors has appointed Bradford S. Goodwin as our audit committee financial expert. All of our independent auditors and management periodically meet privately with our audit committee. Our audit committee is authorized to:

- approve and retain the independent auditors to conduct the annual audit of our books and records;
- review the proposed scope and results of the audit;
- review and pre-approve the independent auditor's audit and non-audit services rendered;
- approve the audit fees to be paid;
- review accounting and financial controls with the independent auditors and our financial and accounting staff;
- review and approve transactions between us and our directors, officers and affiliates;
- recognize and prevent prohibited non-audit services;
- establish procedures for complaints received by us regarding accounting matters;
- oversee internal audit functions; and
- prepare the report of the audit committee that SEC rules require to be included in our annual meeting proxy statement.

Compensation Committee

Our compensation committee is composed of Rohit Patel (Chairman), and Lawrence D. Dorr, M.D., and Bradford S. Goodwin, each of whom is independent within the meaning of the rules of the SEC and The NASDAQ Global Market. Gregg R. Honigblum served as a member of our compensation committee from December 2006 until March 2007. Our compensation committee is authorized to:

- review and recommend the compensation arrangements for management, including the compensation for our president and chief executive officer;
- establish and review general compensation policies with the objective to attract and retain superior talent, to reward individual performance and to achieve our financial goals;
- administer our stock incentive plan; and
- prepare the report of the compensation committee that SEC rules require to be included in our annual meeting proxy statement.

Nominating and Governance Committee

Our nominating and governance committee is composed of Rohit Patel (Chairman) and Max Link, Ph.D., each of whom is independent within the meaning of the rules of the SEC and The NASDAQ Global Market. Our nominating and governance committee is authorized to:

- identify and nominate members of the board of directors;

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- develop and recommend to the board of directors a set of corporate governance principles applicable to our company; and
- oversee the evaluation of the board of directors and management.

Compensation Committee Interlocks and Insider Participation

Our compensation committee is composed of Rohit Patel, Lawrence D. Dorr, M.D., Bradford S. Goodwin and Gregg R. Honigblum served as a member of our compensation committee from December 2006 until March 2007. No member of our compensation committee has at any time been an employee of ours. None of our executive officers serves as a member of the board of directors or compensation committee of any entity that has one or more executive officers serving as a member of our board of directors or compensation committee.

Each of Mr. Patel, Dr. Dorr and Mr. Honigblum have participated in transactions with us since January 2004. For a detailed description of these transactions, see “Certain Relationships and Related Person Transactions” on page 103.

COMPENSATION DISCUSSION AND ANALYSIS

Overview

The following Compensation Discussion and Analysis describes material aspects of our executive compensation policies and decisions as they relate to the compensation of our named executive officers. In this section of this prospectus we discuss and analyze the objectives of our compensation program and what our compensation program is designed to reward. We also discuss and analyze the material elements of our compensation program, why we choose to pay each element, how we determine the amount of each element, and how each element of compensation fits into our overall compensation objectives. In addition, we describe actions regarding compensation taken before and after 2006 to the extent these actions enhance the understanding of our executive compensation program.

As our business has developed, and with the guidance and input of the compensation committee, we have developed and implemented compensation policies, plans and programs over the past few years that we believe help us achieve the goals and objectives of our compensation program. Our board of directors appoints the members of our compensation committee and delegates to that committee oversight of the administration of our executive compensation. The compensation committee assesses executive compensation by applying the following principles: the level of executive compensation should depend upon both corporate performance and individual performance; the interests of our executives should be closely aligned with those of our stockholders through equity-based compensation; and compensation should be commensurate with our stage of development. The compensation committee makes recommendations to our board of directors based upon management's requests and recommendations provided to it by our Chief Executive Officer as to annual base salary increases and annual stock option awards for the other executive officers. Recommendations for annual base salary increases and annual stock option awards for Dr. Khandkar are determined by the compensation committee. Our board of directors considers and ultimately acts on the recommendations of the compensation committee regarding the compensation of our executive officers. Our Chief Executive Officer does not vote on matters concerning his compensation. Such matters are considered and acted on by a majority of independent directors.

Executive Compensation Program Objectives and Philosophy

The primary objectives of our executive compensation program are to:

- attract, motivate and retain talented and dedicated executive officers to a development-stage company;
- provide our executive officers with both cash and equity incentives to promote strong performance;
- provide our executive officers with long-term incentives, in the form of stock options, in order to align the interests of our executive officers with those of our stockholders; and
- provide continuity during our development stage.

Either in the fourth quarter of the prior fiscal year or in the first quarter of the then current fiscal year, the compensation committee, in conjunction with management, sets recommendations for base salaries to be paid and stock option awards to be granted to all employees, including our executive officers. In making annual recommendations for base salaries and stock option awards, the compensation committee reviews our overall corporate position and product development progress at the end of the fiscal year and the individual performance of each executive officer. In 2006, our Chief Executive Officer established the individual performance goals for all executive officers other than himself. These individual performance goals relate to specific corporate functions for which each executive officer is either principally responsible or for which his performance significantly influences the outcome. Beginning with fiscal year 2007, our Chief Executive Officer established individual performance goals for our President and our Vice President of Finance and Chief Financial Officer. Our President established individual performance goals for all other executive officers. Generally, annual base salary increases and annual stock option awards granted to executives are tied to our overall financial position, product development progress and the achievement of each executive's individual performance goals.

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Beginning with fiscal year 2006, the compensation committee recommended, and our board of directors approved, goals for our Chief Executive Officer where our Chief Executive Officer was eligible to receive a cash bonus of up to a maximum of 25% of his 2006 base salary subject to the achievement of specified performance goals, including the launch of specified product candidates and the completion of an initial public offering. The 2006 performance goals for our former Vice President of Finance and Chief Financial Officer, Vice President of Products, Vice President of Manufacturing and former Vice President of Marketing and Sales included the following:

Eugene B. Jones—participate with the Chief Executive Officer and the executive team in planning and executing corporate, financial, strategic business plans and objectives; confirm with the Chief Executive Officer and the executive team that our financial capital needs are adequately met; provide adequate cost controls and timely reporting to effectively manage our finances; oversee human resources and administration functions; and participate in decision making with regard to corporate transactions.

Warionex (“Jose”) Belen—participate with the Chief Executive Officer and the executive team in planning and executing corporate, product development and strategic business plans, including intellectual property and our overall company objectives; confirm with the Chief Executive Officer and the executive team that our product development and intellectual property objectives are adequately met; and provide adequate budgetary controls and timely reporting to effectively manage our product development.

Bryan J. McEntire—participate with the Chief Executive Officer and the executive team in planning and executing corporate, financial, strategic business plans and objectives; meet manufacturing capital equipment budget and spending plan for 2006; retain ISO 13485 certification; develop manufacturing processes and building out our manufacturing facility.

Cameron G. Rouns—participate with the Chief Executive Officer and the executive team in planning and executing corporate, financial, strategic business plans and objectives; confirm with the Chief Executive Officer and the executive team that our sales and marketing objectives are adequately met; and provide adequate budgetary controls and timely reporting to effectively manage our sales and marketing.

Beginning with fiscal year 2007, the compensation committee recommended, and our board of directors approved, the grant of stock options to our President, Vice President of Finance and Chief Financial Officer, Vice President of Manufacturing and Research, and Vice President of Marketing that include an accelerated vesting feature tied to the achievement of certain individual and corporate performance goals. The corporate goals relate to development milestones for our lead product candidates, and the individual goals are related to one or more corporate functions for which each such executive is principally responsible. The specific targets associated with each executive officer’s performance goals are sensitive commercial information that, if publicly disclosed, could hinder our ability to effectively compete against our competitors, or put us at a significant competitive disadvantage in negotiations with third parties. Barring unforeseen circumstances, we expect that it is reasonably likely that our executive officers will achieve their individual targets set in 2007.

The 2007 performance goals for our President, Vice President of Finance and Chief Financial Officer, Vice President of Manufacturing and Research, and Vice President of Marketing include the following:

Warionex (“Jose”) Belen—preparation of filings for submission to the FDA for our lead spinal products; execution of sales agent agreements for our spinal products; completion of the design of our reconstructive product candidates; and the first commercial sale of one of our lead spinal products.

Bryan J. McEntire—completion of installation and operational qualifications for the manufacture of our lead spinal products; manufacture of sufficient quantities of our lead spinal products for testing; and the first commercial sale of one of our lead spinal products.

Reyn E. Gallacher—completion of an initial public offering and the first commercial sale of one of our lead spinal products.

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Kenneth W. Ludwig, Jr.—execution of sales agent agreements for our spinal products; completion of documentation for product training, education and sales materials of our lead product candidates; and the first commercial sale of one of our lead spinal products.

If an executive's individual goals are achieved, then a specified portion of the executive's option immediately vests, and if all of the executive's individual goals are achieved and all of the corporate goals are achieved, then the executive's option will immediately become fully vested. If the corporate goals and the executive's individual goals are not met, then these stock options vest over a four-year period following the date they were granted.

With the exception of our Chief Executive Officer, the written evaluation of our executive officers is performed in January of each year. Our Chief Executive Officer's performance evaluation, which generally is conducted by the compensation committee in December of each year, influences his base salary adjustments and stock awards, if any. Our Chief Executive Officer prepares written evaluations of the other executive officers. Both the Chief Executive Officer and other executive officer then meet to discuss the executive officer's evaluation and the performance of that executive officer relative to established goals. Supervisors are responsible for completing a written evaluation of the performance of all employees who report directly to them. Individual goals for the following year are proposed and agreed to jointly by the individual employee and his or her direct supervisor. The following year, the supervisor and employee meet to discuss the evaluation and his or her performance relative to these established goals. This process culminates in a recommendation by the Chief Executive Officer and Chief Financial Officer to the compensation committee for annual executive officer and employee base salary increases and annual stock option awards, if any. The compensation committee determines the award of any base salary increases and stock option grants to our executive officers. Base salary increases for individual employees, including our executive officers, are allocated based on individual merit and other considerations from a "pool" equal to a specified percentage of aggregate current base salaries. These recommendations are then reviewed by the compensation committee and recommended to the board of directors for approval.

The Elements of Our Compensation Program

The principal elements of our executive compensation program are base salary, long-term equity incentives in the form of stock options to purchase our common stock, post-termination severance, and acceleration of stock option vesting upon certain termination and/or change in control events. We do not currently have an annual cash bonus program.

Base Salary

Base salary is used to compensate our executive officers based on the breadth of their experience, skills, knowledge and responsibilities, taking into account our overall financial position and product development progress. Salaries for our executive officers are reviewed by our Chief Executive Officer and the compensation committee on an annual basis, as well as at the time of promotion or times of other significant changes in responsibilities. The recommended base salaries for our executive officers for 2006 were determined by the compensation committee after reviewing a number of factors, including:

- the responsibilities associated with the position held by each of our executive officers and where that position fits within our overall corporate structure;
- the seniority of the individual executive's position;
- the base salary level of each executive officer in prior years;
- our overall financial position and product development progress; and
- for executive officers other than the Chief Executive Officer, recommendations made by the Chief Executive Officer.

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The compensation committee does not assign relative weights or rankings to these factors, but instead makes a subjective determination taking into account all of these factors.

In December 2005, the compensation committee recommended and our board of directors approved, a 7% merit increase in the base salary of our Chief Executive Officer effective as of December 1, 2005. In December 2006, the compensation committee recommended, and our board approved, a 5% merit increase in the base salary of our Chief Executive Officer effective as of January 2007. The compensation committee based this increase on our overall financial position, his ongoing contributions and his ability to further our growth and product development progress.

In May 2007, in order to more closely align the salaries of our executive officers relative to their individual positions and in connection with the promotion of Mr. Gallacher to be our Vice President of Finance and Chief Financial Officer, the compensation committee recommended, and our board of directors approved, an increase in the base salaries of each of our Chief Executive Officer, Dr. Khandkar, and Mr. Gallacher by approximately 15%. The base salary increases are retroactive to March 2007. See “—Executive Compensation—Employment Arrangements with Ashok C. Khandkar, Ph.D.—Offer Letters” below.

Long-Term Incentives

We provide the opportunity for our executive officers to earn long-term equity incentive awards. Long-term equity incentive awards provide our executives with the incentive to continue their employment with us for longer periods of time, which in turn, provides us with greater continuity during our growth stage. In 2006, our long-term equity incentive program consisted solely of grants of stock options. Also, these grants of stock are less costly to us in the short-term than cash compensation.

Initial Stock Options

Executive officers who join us are awarded initial stock option grants. These grants have an exercise price equal to the fair market value of our common stock on the grant date and a four-year vesting schedule with 25% of the shares vesting on the first anniversary of the date of grant, and 1/36th of the remaining unvested shares vesting monthly thereafter. The amount of the initial stock option award is determined based on the executive’s position and our overall financial position and product development progress. The initial stock option grants are intended to provide the executive, promptly upon joining us, with an incentive to build value in our company over an extended period of time. The amount of the initial stock option award is also determined in light of the executive’s base salary and other compensation to ensure that the executive’s total compensation is in line with our overall compensation philosophy.

Annual Stock Options

It is the intention of the compensation committee to award long-term equity incentives to executives on an annual basis as part of our overall performance review process, although more frequent awards may be made at the recommendation of the compensation committee and upon approval by the board of directors, such as in the case of promotions or newly hired executives. The size of individual executive stock option grants is influenced by several factors, including our overall financial position and product development progress, the responsibilities of the individual executive officer, the executive officer’s past performance, anticipated future contributions, prior option grants, and the executive officer’s total cash compensation. Our equity incentive awards granted to executive officers in 2006 were recommended by our compensation committee and approved by our board of directors based on these factors and were intended to provide management with a strong incentive to maximize corporate performance and the creation of stockholder value over the long term. We granted stock options to all of our executive officers at exercise prices equal to the fair market value of our common stock on the date of grant. All of these option grants are subject to a four-year vesting schedule with 25% of the shares vesting on the first anniversary of the date of grant, and 1/36th of the remaining unvested shares vesting monthly thereafter. We believe that these time-based vesting provisions reward the longevity and commitment of our executive officers. We have used stock options as our form of equity compensation because, among other things, stock options

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result in less immediate dilution of existing stockholders' interest and, prior to our adoption of SFAS 123(R), resulted in less compensation expense for us relative to other types of equity awards.

In December 2006, the compensation committee, as part of its annual review process and based upon our overall financial position and product development progress, recommended, as it did in 2005, that our board of directors grant stock options to our executive officers in order to reward the contributions they made towards the achievement of our corporate goals and to more closely align our executives' ownership interests with the long-term interests of our stockholders.

In May 2007, the compensation committee recommended, and our board of directors approved, the grant of stock options to our President, Vice President of Finance and Chief Financial Officer, Vice President of Manufacturing and Vice President of Marketing that include an accelerated vesting feature tied to the achievement of certain individual and corporate performance goals. See "—Executive Compensation—Offer Letters" below.

Other Compensation

We maintain broad-based benefits that are provided to all employees, including health insurance, of which we pay 50% of the premiums, life insurance, long-term disability insurance, and a 401(k) plan. Effective upon the completion of our first full payroll period following July 1, 2007, we plan to begin matching the contributions of our employees who participate in our 401(k) plan as follows: a match of 100% on the first 3% of compensation contributed by a plan participant and a match of 50% on amounts above 3%, up to a limit of 5%, of compensation contributed by a plan participant.

Severance and Change in Control Benefits

We provide employment protections for our named executive officers and our Vice President of Marketing by including severance benefits and change in control provisions in their severance agreements. We provide these protections in order to attract and retain highly skilled and experienced executive officers, as well as to align the interests of our executives with those of our stockholders.

If, within one year following a change in control, our Chief Executive Officer is terminated by us other than for cause, or resigns for good reason, he is entitled to receive a lump sum severance payment of an amount equal to three times his highest annual base salary and bonus during the preceding three-year period, including the year of such termination. Under the same circumstances, our other named executives are entitled to receive a lump sum severance payment of an amount equal to two times their highest annual base salary and bonus during the preceding three-year period, including the year of termination. If it is determined that the amounts payable to each executive officer under his severance agreement, when considered together with any other payments payable to him in connection with a change in control of Amedica, cause these payments to be treated as excess parachute payments under Section 280G of the U.S. Internal Revenue Code of 1986, as amended, or the Internal Revenue Code, then we will be required to make an additional "gross up" payment in order to pay for any additional tax imposed on him pursuant to Section 4999 of the Internal Revenue Code. We believe that the increased difficulty of finding comparable employment opportunities at the level of chief executive officer requires us to provide longer terms for severance payments in order to attract and retain highly skilled and experienced individuals for this position. In addition, within one year following a change in control, certain provisions of our executive officers' severance agreements allow for acceleration of equity awards in the event the executive is terminated without cause or the executive terminates their employment for good reason. We believe that this equity vesting acceleration mechanism provides an incentive for our executive officers to achieve corporate and individual goals and rewards them for their part in increasing our value, while contemporaneously incentivizing them to maintain their employment after a friendly change in control.

Our severance and change in control provisions for our executive officers and the definitions of cause, good reason, and change in control are summarized in "—Potential Payments Upon Termination or Change in Control" below.

Conclusion

Our compensation policies are designed and are continually being developed to retain and motivate our executives and to reward them for outstanding individual and corporate performance.

EXECUTIVE COMPENSATION**Summary Compensation Table**

The following table shows the total compensation paid or accrued during the fiscal year ended December 31, 2006 to (1) our Chief Executive Officer, (2) our President, (3) our current Vice President, Finance and Chief Financial Officer, (4) our former Vice President, Finance and Chief Financial Officer, and (5) our only other executive officer who earned more than \$100,000 during the fiscal year ended December 31, 2006. The table also includes an additional executive officer who earned more than \$100,000 during the 2006 fiscal year but who was not serving as an executive officer of Amedica at December 31, 2006.

<u>Name and Principal Position at May 1, 2007</u>	<u>Year</u>	<u>Salary</u>	<u>Option Awards⁽¹⁾</u>	<u>All Other Compensation</u>	<u>Total</u>
Ashok C. Khandkar, Ph.D. Chief Executive Officer	2006	\$190,372	\$10,874	\$ —	\$201,246
Warionex (“Jose”) Belen President	2006	155,262	4,708	—	159,970
Bryan J. McEntire Vice President, Manufacturing and Research	2006	155,758	9,225	—	164,983
Reyn E. Gallacher Vice President, Finance, Chief Financial Officer and Assistant Secretary ⁽²⁾	2006	105,923	7,558	—	113,481
Eugene B. Jones Former Vice President, Finance and Chief Financial Officer ⁽³⁾	2006	155,446	9,388	95,489 ⁽⁴⁾	260,323
Cameron G. Rouns Former Vice President, Sales and Marketing ⁽⁵⁾	2006	135,661	3,586	—	139,247

- (1) The dollar amounts in this column represent the compensation cost for the year ended December 31, 2006 of stock option awards granted in and prior to 2006. These amounts have been calculated in accordance with FASB Statement No. 123 (revised), “Share-Based Payment,” or SFAS No. 123R, using the Black-Scholes Valuation model. See Notes 1 and 7 to our financial statements included elsewhere in this prospectus for details as to assumptions used to determine the fair value of the option awards. See also our discussion of stock-based compensation under “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Critical Accounting Policies and Significant Judgments and Estimates—Stock-Based Compensation.”
- (2) Mr. Gallacher served as our Controller during the fiscal year ended December 31, 2006 and became our Vice President, Finance on January 6, 2007, and our Chief Financial Officer and Assistant Secretary in March 2007.
- (3) Mr. Jones resigned effective January 5, 2007.
- (4) Represents a lump sum severance payment in connection with Mr. Jones’ separation of employment.
- (5) Mr. Rouns resigned effective December 1, 2006.

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Grants Of Plan-Based Awards

The following table shows information regarding grants of plan-based awards that we made during the fiscal year ended December 31, 2006 to each of the executive officers named in the Summary Compensation Table.

Name	Grant Date	All Other Option Awards: Number of Securities Underlying Options	Exercise or Base Price of Option Awards (per share)	Grant Date Fair Value of Stock and Option Awards ⁽¹⁾
Ashok C. Khandkar, Ph.D. Chief Executive Officer	2/12/2006 ⁽²⁾ 2/12/2006 ⁽²⁾	40,000 40,000	\$ 1.00 1.00	\$ 0.82 0.76
Warionex (“Jose”) Belen President	2/12/2006 ⁽²⁾ 12/11/2006 ⁽³⁾	6,000 30,000	1.00 1.00	0.82 0.76
Bryan J. McEntire Vice President, Manufacturing and Research	2/12/2006 ⁽²⁾ 12/11/2006 ⁽³⁾	30,000 30,000	1.00 1.00	0.82 0.76
Reyn E. Gallacher Vice President, Finance, Chief Financial Officer and Assistant Secretary	2/12/2006 ⁽⁴⁾ 12/11/2006 ⁽³⁾	40,000 30,000	1.00 1.00	0.82 0.76
Eugene B. Jones Former Vice President, Finance and Chief Financial Officer	2/12/2006 ⁽²⁾	30,000	1.00	0.82
Cameron G. Rouns Former Vice President, Sales and Marketing	2/12/2006 ⁽²⁾	6,000	1.00	0.82

- (1) See Notes 1 and 7 to our financial statements included elsewhere in this prospectus for details as to assumptions used to determine the fair value of the option awards. See also our discussion of stock-based compensation under “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Critical Accounting Policies and Significant Judgments and Estimates—Stock-Based Compensation.”
- (2) Represents an annual stock option granted for performance during the fiscal year ended December 31, 2005.
- (3) Represents an annual stock option granted for performance during the fiscal year ended December 31, 2006.
- (4) Represents a stock option granted to Mr. Gallacher when he joined us on January 6, 2006.

Employment Arrangements with Ashok C. Khandkar, Ph.D.

We do not have a written employment agreement with Ashok C. Khandkar, Ph.D., our Chief Executive Officer, and he is employed by us on an at-will basis. As of December 31, 2006, Dr. Khandkar’s base salary was \$190,000. In addition, Dr. Khandkar is eligible to receive annual stock option grants based upon our overall financial position and product development progress, and the attainment of specified performance goals recommended by the compensation committee and approved by our board of directors. Based upon our overall financial position and product development process for the fiscal year ended December 31, 2005, Dr. Khandkar received an option to purchase 40,000 shares of our common stock at an exercise price of \$1.00 per share on February 12, 2006. For the fiscal year ending December 31, 2006, Dr. Khandkar was eligible to receive a cash bonus of up to 25% of his base salary based upon the achievement of certain performance goals established by our board of directors. Because we did not launch any of our product candidates in 2006 and we did not complete an initial public offering, Dr. Khandkar was not paid a cash bonus for 2006. For the fiscal year ended December 31, 2006, based upon our overall financial position, and his ongoing contributions and his ability to further our growth and product development progress, Dr. Khandkar received a 5% merit base salary increase, which increased his salary to \$200,000 effective January 1, 2007, and he received an option to purchase 40,000 shares of our common stock at an exercise price of \$1.00 per share. The option is subject to a four-year vesting schedule.

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with 25% of the shares vesting on the first anniversary of the date of grant, and 1/36th of the remaining unvested shares vesting monthly thereafter. In May 2007, in order to more closely align the salaries of our executive officers relative to their individual positions within our organization, the compensation committee recommended, and our board of directors approved, an increase in Dr. Khandkar's base salary to \$230,000 per year retroactive to March 2007.

Dr. Khandkar has entered into a confidentiality and assignment of inventions agreement pursuant to which he has agreed to maintain the confidentiality of our business information and assign his past and present inventions to us. In addition, Dr. Khandkar is entitled to certain benefits in connection with a termination of his employment upon a change in control discussed below under “—Potential Payments Upon Termination or Change in Control.”

Offer Letters

We do not have written employment agreements with any of our other named executive officers and each of our executive officers is employed by us on an at-will basis. However, certain elements of the executive officers' compensation and other employment arrangements are set forth in letter agreements that we executed with the executive officers at the time their employment with us commenced. These letter agreements provide, among other things, the executive officer's initial annual base salary and initial stock option grant. As a condition to their employment, each executive officer has entered into a confidentiality and assignment of inventions agreement pursuant to which each officer has agreed to maintain the confidentiality of our business information and assign inventions to us. The letter agreements are further described below. Since the date of each of the letter agreements entered into with our executive officers, the compensation paid to each has been increased and additional stock options have been granted.

Warionex (“Jose”) Belen, President. Pursuant to a letter agreement dated May 31, 2005 between us and Mr. Belen, we agreed to employ Mr. Belen as our Vice President of Products beginning on May 31, 2005. In December 2006, Mr. Belen began serving as our President and, in connection with his promotion, his base salary was increased to \$195,000 effective January 1, 2007. Based upon our overall financial position, our product development progress and to the extent he met his individual performance goals for the fiscal year ended December 31, 2005, Mr. Belen received an option to purchase 6,000 shares of our common stock at an exercise price of \$1.00 per share on February 12, 2006. Based upon our financial position and product development progress for the fiscal year ended December 31, 2006, Mr. Belen also received an option to purchase 30,000 shares of our common stock at an exercise price of \$1.00 per share. The option is subject to a four-year vesting schedule with 25% of the shares vesting on the first anniversary of the date of grant, and 1/36th of the remaining unvested shares vesting monthly thereafter. In May 2007, the compensation committee recommended, and our board of directors approved, the grant of 100,000 stock options to Mr. Belen that include an accelerated vesting feature tied to the achievement of certain individual and corporate performance goals for 2007 and 2008. Mr. Belen is entitled to certain benefits in connection with a termination of his employment upon a change in control discussed below under “—Potential Payments Upon Termination or Change in Control.”

Bryan J. McEntire, Vice President, Manufacturing and Research. Pursuant to a letter agreement dated May 29, 2004 between us and Mr. McEntire, we agreed to employ Mr. McEntire as our Vice President of Manufacturing beginning August 1, 2004. He became our Vice President of Research in December 2006. In order to more closely align the salaries of our executive officers relative to their individual position and in recognition of Mr. McEntire's ongoing contributions to our growth and development, his base salary was increased to \$190,000 effective January 1, 2007. Based upon our overall financial position, our product development progress and to the extent he met his individual performance goals for the fiscal year ended December 31, 2005, Mr. McEntire received an option to purchase 30,000 shares of our common stock at an exercise price of \$1.00 per share on February 12, 2006. Based upon our financial position and product development progress for the fiscal year ended December 31, 2006, Mr. McEntire also received an option to purchase 30,000 shares of our common stock at an exercise price of \$1.00 per share. The option is subject to a

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four-year vesting schedule with 25% of the shares vesting on the first anniversary of the date of grant, and 1/36th of the remaining unvested shares vesting monthly thereafter. In May 2007, the compensation committee recommended, and our board of directors approved, the grant of 100,000 stock options to Mr. McEntire that include an accelerated vesting feature tied to the achievement of certain individual and corporate performance goals for 2007 and 2008. Mr. McEntire is entitled to certain benefits in connection with a termination of his employment upon a change in control discussed below under “—Potential Payments Upon Termination or Change in Control.”

Reyn E. Gallacher, Vice President, Finance, Chief Financial Officer and Assistant Secretary. Pursuant to a letter agreement dated January 3, 2006 between us and Mr. Gallacher, we agreed to employ Mr. Gallacher as our Controller beginning on January 6, 2006. Mr. Gallacher received an initial stock option grant of 40,000 shares upon joining Amedica. As of December 31, 2006, his base salary was \$108,000. In January 2007, Mr. Gallacher began serving as our Vice President of Finance and his salary was increased to \$130,000 effective January 1, 2007. Based upon our financial position, our product development progress and to the extent he met his individual performance goals for the fiscal year ended December 31, 2006, Mr. Gallacher received an option to purchase 30,000 shares of our common stock at an exercise price of \$1.00 per share. The option is subject to a four-year vesting schedule with 25% of the shares vesting on the first anniversary of the date of grant, and 1/36th of the remaining unvested shares vesting monthly thereafter. Since March 2007, Mr. Gallacher has served as our Chief Financial Officer. In May 2007, in connection with his promotion, the compensation committee recommended, and our board of directors approved, an increase in Mr. Gallacher’s base salary to \$150,000 per year retroactive to March 2007. Also in May 2007, the compensation committee recommended, and our board of directors approved, the grant of 40,000 stock options to Mr. Gallacher that include an accelerated vesting feature tied to the achievement of certain individual and corporate performance goals for 2007 and 2008. Mr. Gallacher is entitled to certain benefits in connection with a termination of his employment upon a change in control discussed below under “—Potential Payments Upon Termination or Change in Control.”

Eugene B. Jones, Former Vice President, Finance and Chief Financial Officer. Pursuant to a letter agreement dated April 2, 2004 between us and Mr. Jones, we agreed to employ Mr. Jones as our Vice President of Finance beginning April 19, 2004. Mr. Jones base salary for the fiscal year ended December 31, 2006 was \$155,000. Mr. Jones resigned effective January 5, 2007 and received certain compensation in connection with his termination discussed under “—Potential Payments Upon Termination or Change in Control.”

Cameron G. Rouns, Former Vice President, Sales and Marketing. Pursuant to a letter agreement dated December 17, 2004 between us and Mr. Rouns, we agreed to employ Mr. Rouns as our Vice President of Sales and Marketing beginning January 4, 2005. Mr. Rouns base salary for the fiscal year ended December 31, 2006 was \$136,000. Mr. Rouns resigned from this position effective December 1, 2006.

Our 2003 Stock Option Plan

All options granted to our employees, including our executive officers, under the 2003 Stock Option Plan are exercisable in accordance with the terms of an option agreement entered into at the time of the grant. Options are generally exercisable for a period of ten years, provided that if an employee is terminated without cause or leaves for any reason other than death or disability, the incentive stock options are generally exercisable within three months after termination of the employee’s employment to the extent then vested on the date of such termination. By contrast, non-qualified stock options are generally exercisable upon termination without cause for the full ten-year term, to the extent then vested on the date of the cessation of employment.

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Outstanding Equity Awards At Fiscal Year-End

The following table shows grants of stock options outstanding on the last day of the fiscal year ended December 31, 2006 to each of the executive officers named in the Summary Compensation Table.

Name	Option Awards			
	Number of Securities Underlying Unexercised Options Exercisable	Number of Securities Underlying Unexercised Options Unexercisable	Option Exercise Price	Option Expiration Date
Ashok C. Khandkar, Ph.D. Chief Executive Officer	800,000 ⁽¹⁾ 20,000 — —	— 20,000 ⁽²⁾ 40,000 ⁽³⁾ 40,000 ⁽⁴⁾	\$ 0.11 0.60 1.00 1.00	09/17/2013 12/15/2014 02/12/2016 12/11/2016
Warionex (“Jose”) Belen President	37,500 — —	62,500 ⁽⁵⁾ 6,000 ⁽³⁾ 30,000 ⁽⁴⁾	0.60 1.00 1.00	06/15/2015 02/12/2016 12/11/2016
Bryan J. McEntire Vice President, Manufacturing and Research	125,000 7,500 — —	75,000 ⁽⁶⁾ 7,500 ⁽²⁾ 30,000 ⁽³⁾ 30,000 ⁽⁴⁾	0.25 0.60 1.00 1.00	06/08/2014 12/15/2014 02/12/2016 12/11/2016
Reyn E. Gallacher Vice President, Finance, Chief Financial Officer and Assistant Secretary	— —	40,000 ⁽³⁾ 30,000 ⁽⁴⁾	1.00 1.00	02/12/2016 12/11/2016
Eugene B. Jones Former Chief Financial Officer and Vice President, Finance	50,000 15,000 —	75,000 ⁽⁶⁾ 15,000 ⁽²⁾ 30,000 ⁽³⁾	0.25 0.60 1.00	06/08/2014 12/15/2014 02/12/2016
Cameron G. Rouns Former Vice President, Sales and Marketing	30,625 —	39,375 ⁽⁷⁾ 6,000 ⁽³⁾	0.60 1.00	03/20/2015 02/12/2016

- (1) The option vested as to 25% of the shares on September 17, 2003, the day this stock option was granted, and vested as to an additional 1/36th of the remaining unvested shares per month thereafter.
- (2) The option vested as to 25% of the shares on December 15, 2005 and vests as to an additional 1/36th of the remaining unvested shares per month thereafter.
- (3) The option vested as to 25% of the shares on February 12, 2007 and vests as to an additional 1/36th of the remaining unvested shares per month thereafter.
- (4) The option vests as to 25% of the shares on December 11, 2007 and vests as to an additional 1/36th of the remaining unvested shares per month thereafter.
- (5) The option vested as to 25% of the shares on June 15, 2006 and vests as to an additional 1/36th of the remaining unvested shares per month thereafter.
- (6) The option vested as to 25% of the shares on June 8, 2005 and vests as to an additional 1/36th of the remaining unvested shares per month thereafter.
- (7) The option vested as to 25% of the shares on March 20, 2006 and vests as to an additional 1/36th of the remaining unvested shares per month thereafter.

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Option Exercises And Stock Vested

The following table shows information regarding exercises of options to purchase our common stock held by each executive officer named in the Summary Compensation Table during the fiscal year ended December 31, 2006.

Name	Option Awards	
	Number of Shares Acquired on Exercise	Value Realized on Exercise
Ashok C. Khandkar, Ph. D. Chief Executive Officer	—	\$ —
Warionex (“Jose”) Belen President	—	—
Bryan J. McEntire Vice President, Manufacturing and Research	—	—
Reyn E. Gallacher Vice President, Finance, Chief Financial Officer and Assistant Secretary	—	—
Eugene B. Jones Former Vice President, Finance and Chief Financial Officer	8,400	6,300
Cameron G. Rouns Former Vice President, Sales and Marketing	—	—

- (1) Amounts shown in this column do not necessarily represent actual value realized from the sale of the share acquired upon exercise of options because in many cases the shares are not sold on exercise but continue to be held by the executive officer exercising the option. The amounts shown represent the difference between the option exercise price and the fair market value on the date of exercise, which is the estimated amount that would have been realized if the shares had been sold immediately upon exercise.

Pension Benefits

We do not have any qualified or non-qualified defined benefit plans.

Nonqualified Deferred Compensation

We do not have any nonqualified defined contribution plans or other deferred compensation plans.

Potential Payments Upon Termination or Change in Control

We have entered into certain agreements and maintain certain plans that may require us to make certain payments and/or provide certain benefits to the executive officers named in the Summary Compensation Table in the event of a termination of employment or change in control.

Termination of Employment and Change in Control Arrangements

Ashok C. Khandkar, Ph.D., Chief Executive Officer. Pursuant to our severance agreement with Dr. Khandkar, dated May 23, 2005, within one year following a change in control, in the event that Dr. Khandkar’s employment is terminated by us other than for cause (but not including termination due to death or disability) or he resigns for good reason, we are required to pay him, in addition to any payments due for services rendered prior to his termination, a lump sum payment of an amount equal to three times his highest annual base salary and bonus payments during the preceding three-year period, including the year of his

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termination. In addition, all of his outstanding options shall become fully vested. If Dr. Khandkar had been terminated under the above referenced circumstances on December 31, 2006, he would have been entitled to receive \$571,620 as a severance payment and all outstanding options would be fully vested, the fair value of which would have been \$14,000.

Warionex (“Jose”) Belen, President. Pursuant to our severance agreement with Mr. Belen, dated February 14, 2006, within one year following a change in control, in the event that Mr. Belen’s employment is terminated by us other than for cause (but not including termination due to death or disability) or he resigns for good reason, we are required to pay him, in addition to any payments due for services rendered prior to his termination, a lump sum payment of an amount equal to two times his highest annual base salary and bonus payments during the preceding three-year period, including the year of his termination. In addition, all of his outstanding options shall become fully vested. If Mr. Belen had been terminated under the above referenced circumstances on December 31, 2006, he would have been entitled to receive \$311,400 as a severance payment and all outstanding options would be fully vested, the fair value of which would have been \$30,910.

Bryan J. McEntire, Vice President, Manufacturing and Research. Pursuant to our severance agreement with Mr. McEntire, dated May 23, 2005, within one year following a change in control, in the event that Mr. McEntire’s employment is terminated by us other than for cause (but not including termination due to death or disability) or he resigns for good reason, we are required to pay him, in addition to any payments due for services rendered prior to his termination, a lump sum payment of an amount equal to two times his highest annual base salary and bonus payments during the preceding three-year period, including the year of his termination. In addition, all of his outstanding options shall become fully vested. If Mr. McEntire had been terminated under the above referenced circumstances on December 31, 2006, he would have been entitled to receive \$312,100 as a severance payment and all outstanding options would be fully vested, the fair value of which would have been \$67,800.

Reyn E. Gallacher, Vice President, Finance, Chief Financial Officer and Assistant Secretary. Pursuant to our severance agreement with Mr. Gallacher, dated March 27, 2007, within one year following a change in control, in the event that Mr. Gallacher’s employment is terminated by us other than for cause (but not including termination due to death or disability) or he resigns for good reason, we are required to pay him, in addition to any payments due for services rendered prior to his termination, a lump sum payment of an amount equal to two times his highest annual base salary and bonus payments during the preceding three-year period, including the year of his termination. In addition, all of his outstanding options shall become fully vested. If Mr. Gallacher had been terminated under the above referenced circumstances on December 31, 2006, he would have been entitled to receive \$216,000 as a severance payment and all outstanding options would be fully vested, the value of which would have been \$4,200.

If it is determined that the amounts payable to each executive officer under his severance agreement, when considered together with any other amounts payable to the executive officer in connection with a change in control of Amedica, cause these payments to be treated as excess parachute payments under Section 280G of the Internal Revenue Code, then we will be required to make an additional “gross up” payment in order to pay for any additional tax imposed on him pursuant to Section 4999 of the Internal Revenue Code. If Dr. Khandkar had been terminated on December 31, 2006 as a result of a change in control, he would have been entitled to receive approximately \$238,135 as an additional “gross up” payment.

As defined in the severance agreements with our executive officers:

- “Cause” means (i) the executive’s commission of a felony (other than through vicarious liability or through a motor vehicle offense); (ii) the executive’s material disloyalty or dishonesty to us; (iii) an act of fraud, embezzlement or misappropriation of funds by the executive; (iv) a material breach by the executive of any material provision of the severance agreement or any other agreement with us, which breach is not cured within 30 days after notice to the executive by us of the breach; or (v) the executive’s refusal to carry out a lawful written directive from our board of directors. Any determination of “cause” will be made by a majority of the members of our board voting on such determination.

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- “Good Reason” means without the executive’s consent: (i) a material change in the principal location at which the executive performs his duties for us to a new location that is at least 50 miles from the prior location; or (ii) a material change in the executive’s authority, functions, duties or responsibilities, which would cause his position with us to become of less responsibility, importance or scope than his position on the date of entering in the severance agreement or as of any subsequent date prior to a change in control, provided, however, that this material change is not in connection with the termination of the executive’s employment by us for any reason.
- “Change in Control” means: (i) any “person” (as such term is used in Sections 13(d) and 14(d) of the Securities Exchange Act of 1934, as amended, or the Exchange Act, becomes the “beneficial owner” (as defined in Rule 13d-3 under the Exchange Act), directly or indirectly, of our securities representing 50% or more of the total voting power represented by our then outstanding voting securities pursuant to a transaction or a series of related transactions of which our board does not approve; (ii) a merger or consolidation of us, whether or not approved by our board, other than a merger or consolidation which would result in our voting securities outstanding immediately prior thereto continuing to represent (either by remaining outstanding or by being converted into voting securities of the surviving entity or the parent of such corporation) at least 50% of the total voting power represented by our voting securities of the surviving entity or parent of the corporation outstanding immediately after the merger or consolidation; or (iii) our stockholders approve an agreement for the sale or disposition by us of all or substantially all of our assets.

Eugene B. Jones, Former Vice President, Finance and Chief Financial Officer. Pursuant to an agreement we made with Mr. Jones dated January 5, 2007, regarding his separation from us, we paid Mr. Jones a lump sum of \$95,566. In addition, we granted Mr. Jones a non-qualified stock option exercisable for up to 65,000 shares of our common stock, which expires on June 30, 2014. All of the stock options previously granted to Mr. Jones were terminated upon his separation from us.

Change in Control Arrangements Under Our 2003 Stock Option Plan

All options granted under our 2003 Stock Option Plan become fully vested upon a change in control provided that the employee, officer, director, surgeon advisors or other consultant holds the position on the date of such change in control. If we are to be consolidated with or acquired by another entity in a merger or sale of all or substantially all of our assets, our board of directors or the board of directors of any entity assuming our obligations under the plan, will, as to outstanding options, take any one or more of the following actions pursuant to our 2003 Stock Option Plan:

- make appropriate provision for the continuation of options granted under the plan by substituting on an equitable basis for the shares of our common stock then subject to these options either the consideration payable with respect to those outstanding shares of our common stock in connection with the merger or sale of our assets or securities of any successor or acquiring entity;
- upon written notice to a participant, provide that the participant’s options must be exercised within a specified number of days of the date of that notice, to the extent then exercisable or, at the discretion of our board of directors, or upon a change in control, all options being made fully exercisable, at the end of which period the options will terminated; or
- terminate all options in exchange for a cash payment equal to the excess of the fair value, as defined in the plan, of the shares of our common stock subject to these options over the exercise price thereof, to the extent then exercisable or, at the discretion of our board of directors, or upon a change in control, all options being made fully exercisable.

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Director Compensation

The following table shows the total compensation paid or accrued during the fiscal year ended December 31, 2006 to each of our non-employee directors.

<u>Name</u>	<u>Option Awards ⁽¹⁾</u>	<u>Total</u>
Max Link, Ph.D. ⁽²⁾	\$ 4,804	\$4,804
Bradford S. Goodwin ⁽³⁾	—	—
Lawrence D. Dorr, M.D. ⁽⁴⁾	169	169
Aaron A. Hofmann, M.D. ⁽⁵⁾	1,560	1,560
Gregg R. Honigblum ⁽⁶⁾	—	—
Peter D. Meldrum ⁽⁷⁾	3,911	3,911
Rohit Patel ⁽⁸⁾	2,030	2,030

- (1) The dollar amounts in this column represent the compensation cost for the year ended December 31, 2006 of stock option awards granted in and prior to 2006. These amounts have been calculated in accordance with FASB Statement No. 123 (revised), "Share-Based Payment," or SFAS No. 123R, using the Black Scholes Valuation model. See Notes 1 and 7 to our financial statements included elsewhere in this prospectus for details as to assumptions used to determine the fair value of the option awards. See also our discussion of stock-based compensation under "Management's Discussion and Analysis of Financial Condition and Results of Operations—Critical Accounting Policies and Significant Judgments and Estimates—Stock-Based Compensation."
- (2) As of December 31, 2006, Dr. Link held options to purchase 249,790 shares of common stock, of which 216,040 were vested.
- (3) Mr. Goodwin joined our board of directors on May 6, 2007.
- (4) As of December 31, 2006, Dr. Dorr held options to purchase 15,000 shares of common stock, of which none were vested.
- (5) As of December 31, 2006, Dr. Hofmann held options to purchase 45,000 shares of common stock, of which 11,250 were vested.
- (6) Although, Mr. Honigblum received no compensation for his services as a director in fiscal year 2006, he is affiliated with an entity that received compensation from us in connection with our offerings of shares of our preferred stock. For a detailed description of these transactions, see "Certain Relationships and Related Person Transactions."
- (7) Mr. Meldrum resigned from our board of directors effective December 11, 2006. As of December 11, 2006, Mr. Meldrum held options to purchase 607,188 shares of common stock, all of which were vested.
- (8) As of December 31, 2006, Mr. Patel held options to purchase 165,000 shares of common stock, of which 131,250 were vested.

Director Compensation Policy

Each of our non-employee directors was granted 15,000 stock options pursuant to our 2003 Stock Option Plan as remuneration for his service on our board of directors for the year ended December 31, 2006. Beginning in 2007, newly appointed non-employee directors will now receive an initial grant of 40,000 stock options in addition to the 15,000 stock options that we issue on an annual basis. Because of this change, our board of directors approved a grant of an additional 25,000 stock options to Dr. Dorr and a grant of 40,000 stock options to Mr. Honigblum in May 2007 so that each of these directors will have been granted a total of 40,000 stock options as a result of their recent appointments to our board of directors. The stock options vest over a four-year period, with 25% of the shares vesting on the first anniversary of the date of grant, and 1/36th of the remaining unvested shares vesting monthly thereafter. These stock options become fully vested immediately upon a change in control or a sale of all or substantially all of our assets. We reimburse our directors for reasonable out-of-pocket expenses incurred by them in connection with the attendance at quarterly board meetings.

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On June 18, 2007 our board of directors adopted a new director compensation policy, for fiscal year 2007, that provides for, in addition to the grant of stock options, cash payments to our directors for their service as members of the board of directors and for service as members and chairs of board committees. Under the new policy, we will pay each of our directors a \$20,000 annual retainer to be paid quarterly, \$1,500 for in person attendance at each board meeting, and \$1,000 for participation at each board meeting conducted by telephone conference. We will pay a \$10,000 annual retainer for service as Chair of our audit committee, and a \$7,500 annual retainer for service as Chair of each of our compensation committee and nominating and governance committee. Other members of each of our board committees will be paid a \$3,750 annual retainer for their service as member of the committee. We also will pay each member of a board committee \$1,500 for in person attendance at each committee meeting, and \$1,000 for participation at each committee meeting conducted by telephone conference, provided that such meetings are not held in conjunction with an in person meeting of the board. None of these amounts earned in fiscal 2007 will be paid until after completion of this offering. Thereafter, payments will be made on a quarterly basis.

Employee Benefit Plans

2003 Stock Option Plan

Our 2003 Stock Option Plan was approved by our board of directors and our stockholders on August 3, 2003. The board of directors believes the availability of stock options is an important factor in our ability to attract or retain qualified employees and to provide incentives for them to exert their best interests on our behalf.

All of our employees, officers, directors, surgeon advisors and other consultants are eligible to participate in the plan. The 2003 Stock Option Plan is administered by our board of directors, which designates the price and other terms and conditions of any award granted under the plan. Subject to the provisions of the plan, our board of directors may adopt and amend rules and regulations relating to the administration of the plan. Our board of directors may also delegate authority for administration of the plan to a committee of the board of directors.

As of March 31, 2007, we had reserved a total of 4,000,000 shares of our common stock for issuance under the 2003 Stock Option Plan. In May 2007, we reserved an additional 500,000 shares of our common stock for issuance under the plan. As of March 31, 2007, options for 3,457,627 shares are outstanding under the plan. Options to purchase 185,210 shares of common stock have been exercised as of March 31, 2007. The 2003 Stock Option Plan will terminate on August 7, 2013. The plan may be terminated at an earlier date by vote of the shareholders or our board of directors; provided, however, that any such earlier termination shall not affect any options issued prior to the effective date of such termination.

The 2003 Stock Option Plan permits the grant of both incentive stock options, or ISOs, and non-statutory stock options, or NSOs. Shares of common stock awarded under the plan may be authorized and unissued shares of common stock or shares of common stock held by us in our treasury. If any option granted under the plan expires, terminates or is cancelled, the shares of common stock again become available for issuance under the plan.

Our board of directors determines the persons to whom options are granted, the option price, the number of shares of common stock to be covered by each option, the period of each option, the times at which options may be exercised, and whether the option is an ISO, as defined in the Internal Revenue Code, or an NSO.

All options granted under the plan are exercisable in accordance with the terms of an option agreement entered into at the time of the grant. Options are generally exercisable for a period of ten years, provided that if an employee is terminated or leaves without cause, the ISOs are generally exercisable within three months after termination of the employee's employment to the extent then vested on the date of such termination. By contrast, NSOs are generally exercisable upon termination without cause for the full ten-year term, to the extent then vested on the date of such cessation. All options become fully vested upon a change of control provided that the employee, officer, director, surgeon advisors or other consultant holds such position on the date of such change of control.

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If we are to be consolidated with or acquired by another entity in a merger or sale of all or substantially all of our assets, our board of directors or the board of directors of any entity assuming our obligations under the plan, will, as to outstanding options, take any one or more of the following actions pursuant to our 2003 Stock Option Plan:

- make appropriate provision for the continuation of such options by substituting on an equitable basis for the shares of our common stock then subject to such options either the consideration payable with respect to such outstanding shares of our common stock in connection with the merger or sale of our assets or securities of any successor or acquiring entity;
- upon written notice to a participant, provide that the participant's options must be exercised within a specified number of days of the date of such notice, to the extent then exercisable or, at the discretion of our board of directors, or upon a change of control, all options being made fully exercisable, at the end of which period the options will terminate; or
- terminate all options in exchange for a cash payment equal to the excess of the fair market value, as defined in the plan, of the shares of our common stock subject to such options over the exercise price thereof, to the extent then exercisable or, at the discretion of our board of directors, or upon a change of control, all options being made fully exercisable.

After the effective date of the 2007 Stock Plan described below, we will grant no further stock options under the 2003 Stock Option Plan.

2007 Employee, Director and Consultant Stock Plan

We anticipate that our board of directors will adopt a 2007 Employee, Director and Consultant Stock Plan, or the 2007 Stock Plan. Our 2007 Stock Plan will become effective on the date that the registration statement is declared effective. This plan provides for the grant of incentive stock options, nonqualified stock options, restricted and unrestricted stock awards and other stock-based awards. Our officers, employees, consultants, advisors and directors will be eligible to receive awards under this plan, however, incentive stock options may only be granted to our employees. Upon effectiveness, _____ shares of common stock will be reserved for issuance under this plan. In addition, the 2007 Stock Plan contains an "evergreen" provision, which allows for an annual increase in the number of shares available for issuance under the plan on the first day of each fiscal year during the period beginning on the first day of fiscal year 2008, and ending on the second day of fiscal year 2016. The annual increase in the number of shares shall be equal to the lowest of

- _____ shares;
- 5% of the number of shares of our common stock outstanding on the first day of the applicable fiscal year; and
- an amount determined by our board of directors.

Upon completion of this offering, it is anticipated that this plan shall be administered by our compensation committee. The compensation committee will determine the terms of options and other awards granted pursuant to this plan, including:

- the determination of which employees, directors and consultants will be granted options and other awards;
- the number of shares subject to options and other awards;
- the exercise price of each option which may not be less than fair market value on the date of grant;
- the schedule upon which options become exercisable;
- the purchase price, if any, and number of shares subject to each award;

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- the termination or cancellation of provisions applicable to options; the terms and conditions of other awards, including conditions for repurchase, termination or cancellation, issue price and repurchase price; and
- all other terms and conditions upon which each award may be granted in accordance with the 2007 Stock Plan.

No participant may receive awards for over _____ shares of common stock in any fiscal year.

In addition, our compensation committee may, with the consent of the affected plan participants, reprice or otherwise amend outstanding awards consistent with the terms of the 2007 Stock Plan.

The maximum term of options granted under the 2007 Stock Plan is ten years and our plan terminates on _____, 2017.

Upon a merger or other reorganization event, our board of directors, may, in their sole discretion, take any one or more of the following actions pursuant to our 2007 Stock Plan:

- provide that all options shall be assumed or substituted by the successor corporation;
- upon written notice to a participant, provide that the participant's unexercised options will terminate immediately prior to the consummation of such transaction unless exercised by the participant;
- in the event of a merger pursuant to which holders of our common stock will receive a cash payment for each share surrendered in the merger, make or provide for a cash payment to the participants equal to the difference between the merger price times the number of shares of our common stock subject to such outstanding options (at prices not in excess of the merger price), and the aggregate exercise price of all such outstanding options, in exchange for the termination of such options; and
- provide that outstanding awards shall be assumed or substituted by the successor corporation, become realizable or deliverable, or restrictions applicable to an award will lapse, in whole or in part, prior to or upon the merger or reorganization event.

In addition, under our 2007 Stock Plan, all options become fully vested upon a change of control provided that the employee, officer, director, surgeon consultants or other consultant holds such position on the date of such change of control. Our 2007 Stock Plan provides similar change in control vesting provisions for restricted stock granted under the 2007 Stock Plan and allows the Board to make appropriate adjustments for other stock-based awards.

401(k) Plan

Our employee savings plan is a tax-qualified profit sharing plan that includes a "cash-or-deferred" (or 401(k)) feature. The plan is intended to satisfy the requirements of Section 401 of the Internal Revenue Code. Our employees may elect to reduce their current compensation by up to the statutorily prescribed annual limit and have a like amount contributed to the plan. In addition, we may make discretionary and/or matching contributions to the plan in amounts determined annually by our board of directors. Effective upon the completion of our first full payroll period following July 1, 2007, we plan to begin matching the contributions of our employees who participate in our 401(k) plan as follows: a match of 100% on the first 3% of compensation contributed by a plan participant and a match of 50% on amounts above 3%, up to 5%, of compensation contributed by a plan participant.

Limitation of Directors' Liability and Indemnification

The Delaware General Corporation Law authorizes corporations to limit or eliminate, subject to certain conditions, the personal liability of directors to corporations and their stockholders for monetary damages for breach of their fiduciary duties. Our amended and restated certificate of incorporation limits the liability of our directors to the fullest extent permitted by Delaware law.

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We have obtained director and officer liability insurance to cover liabilities our directors and officers may occur in connection with their services to us, including matters arising under the Securities Act. Our amended and restated certificate of incorporation and amended and restated bylaws also provide that we will indemnify any of our directors and officers who, by reason of the fact that he or she is one of our officers or directors, is involved in a legal proceeding of any nature. We will repay certain expenses incurred by a director or officer in connection with any civil or criminal action or proceeding, specifically including actions by us or in our name (derivative suits). These indemnifiable expenses include, to the maximum extent permitted by law, attorney's fees, judgments, civil or criminal fines, settlement amounts and other expenses customarily incurred in connection with legal proceedings. A director or officer will not receive indemnification if he or she is found not to have acted in good faith and in a manner he or she reasonably believed to be in, or not opposed to, our best interest.

Prior to the completion of this offering, we plan to enter into agreements to indemnify our directors and officers. These agreements, among other things, will indemnify and advance expenses to our directors and officers for certain expenses, including attorney's fees, judgments, fines and settlement amounts incurred by any such person in any action or proceeding, including any action by us arising out of such person's services as our director or officer, or any other company or enterprise to which the person provides services at our request. We believe that these provisions and agreements are necessary to attract and retain qualified persons as directors and officers.

This limitation of liability and the indemnification of our directors and officers does not affect the availability of equitable remedies. In addition, we have been advised that in the opinion of the SEC, indemnification for liabilities arising under the Securities Act is against public policy as expressed in the Securities Act and is therefore unenforceable.

There is no pending litigation or proceeding involving any of our directors, officers, employees or agents in which indemnification will be required or permitted. We are not aware of any threatened litigation or proceeding that may result in a claim for indemnification under the agreements described in this section.

CERTAIN RELATIONSHIPS AND RELATED PARTY TRANSACTIONS

Since January 1, 2004, with the approval of our board of directors, we have engaged in the transactions described below with our directors, executive officers and beneficial owners of more than 5% of our common stock, on an as-converted basis, and affiliates of our directors, executive officers and 5% stockholders. In addition, immediately prior to the consummation of this offering, we expect to effect a one-for- reverse split of our common stock.

Royalty Payments

One of our co-founders and a member of our board of directors, Aaron A. Hofmann, M.D., is also the sole member and president of Joint Enterprises, L.C., a Utah limited liability company. We and Joint Enterprises, L.C. previously entered into an Assignment Agreement, dated August 1, 2001, which has been amended as of August 12, 2005. Pursuant to this agreement, we acquired rights to the *PreVent Cement Restrictor* in exchange for our agreement to pay a one-time payment of \$25,000 and to pay royalties equal to \$2.50 per unit. Joint Enterprises, L.C. also has the option to elect to receive nonqualified stock options to purchase shares of our common stock in lieu of cash payments, subject to approval by our board of directors. We made the \$25,000 payment to Dr. Hofmann in September 2004. As of the date hereof, no units of this product have been sold and no royalties for this product have been paid pursuant to this agreement.

Issuance of Stock and Warrants

We have completed various offerings of shares of our Series A, Series B, Series C and Series D convertible preferred stock through Creation Capital LLC, our placement agent for each of these offerings. Gregg Honigblum is the Chief Executive Officer and a 50% co-owner of Creation Capital LLC and he joined our board of directors in December 2006, subsequent to our Series A, Series B and Series C convertible preferred stock offerings but prior to our Series D convertible preferred stock offering. In connection with our third closing of our Series A convertible preferred stock offering, which occurred on January 28, 2004, we raised \$2.3 million in gross proceeds and sold 3,805,018 shares at \$0.60 per share, and we paid our placement agent \$182,640 as commission and \$20,875 for expenses in connection with the third closing of the offering, of which Mr. Honigblum received \$48,125 from Creation Capital LLC as a result of his ownership interest therein. In connection with our Series B convertible preferred stock offering, closings for which occurred on October 25, 2004 and November 9, 2004, we raised an aggregate of \$6.0 million in gross proceeds and sold a total of 5,000,000 shares at \$1.20 per share, and we paid our placement agent \$480,000 as commission and \$40,000 for expenses in connection with the closings, of which Mr. Honigblum received \$135,000 from Creation Capital LLC as a result of his ownership interest therein. In connection with our Series C convertible preferred stock offering, which occurred on February 24, 2006, we raised \$16.8 million in gross proceeds and sold 8,400,000 shares at \$2.00 per share, and we paid our placement agent \$1,511,265 as commission and \$75,000 for expenses in connection with the offering, of which Mr. Honigblum received \$759,500 from Creation Capital LLC as a result of his ownership interest therein. In connection with our Series D convertible preferred stock offering, closings for which occurred on April 17, 2007 and April 27, 2007, we raised \$13.4 million in gross proceeds and sold 4,456,500 shares at \$3.00 per share, and we paid our placement agent \$758,870 as commission and \$100,000 for expenses in connection with the closings, of which Mr. Honigblum received \$300,000 from Creation Capital LLC as a result of his ownership interest therein. In addition, in connection with our Series C convertible preferred stock offering, we agreed to pay Creation Capital LLC a transaction fee in the event that prior to a registered offering of our securities, we complete a stock sale, merger, tender offer, recapitalization or asset sale by February 24, 2009 that results in a change in control of us. The amount of the transaction fee payable to Creation Capital LLC upon such an event would be 1.5%-3% of the aggregate consideration payable to us in connection with the transaction, up to \$2,500,000.

In addition to the cash compensation we paid to Creation Capital LLC for the services it provided as the placement agent for our convertible preferred stock offerings, we agreed to issue warrants to purchase shares of our preferred stock to Creation Capital LLC. In connection with these offerings, we issued to Creation Capital

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LLC, or at its request to certain of its designees, including one of our directors and a principal stockholder, warrants to purchase 2,100,000 shares of Series A convertible preferred stock, 500,000 shares of Series B convertible preferred stock, 1,203,750 shares of Series C convertible preferred stock and 253,290 shares of Series D convertible preferred stock, at an exercise price equal to 110% of the offering price of the underlying convertible preferred stock, or \$0.66 per share, \$1.32 per share, \$2.20 per share and \$3.30 per share of our Series A, Series B, Series C and Series D convertible preferred stock, respectively. The warrants to purchase shares of our Series A, Series B and Series C convertible preferred stock are currently exercisable through the seventh anniversary of the date of issuance of such warrants, or January 28, 2011, November 9, 2011 and February 24, 2013, respectively, and upon completion of the offering, the warrants to purchase shares of our Series D convertible preferred stock will become exercisable through the seventh anniversary of the date of issuance of such warrants, or April 27, 2014.

The following table summarizes the purchases of shares of our Series A (third closing), Series B, Series C and Series D convertible preferred stock by, as well as the issuance of warrants to purchase shares of our convertible stock to, our directors and beneficial owners of 5% or more of our common stock, on an as-converted basis. None of our executive officers participated in any of the offerings.

Name	Series A Preferred Stock	Series A Preferred Stock Warrants	Series B Preferred Stock	Series B Preferred Stock Warrants	Series C Preferred Stock	Series C Preferred Stock Warrants	Series D Preferred Stock	Series D Preferred Stock Warrants
Directors								
Max Link, Ph.D.	—	—	—	—	100,000	—	35,000	—
Aaron A. Hofmann, M.D.	—	—	—	—	250,000	—	35,000 ⁽¹⁾	—
Lawrence D. Dorr, M.D.	—	—	—	—	—	—	130,000 ⁽²⁾	—
Gregg R. Honigblum	62,501 ⁽³⁾	716,673 ⁽⁴⁾	—	165,875 ⁽⁵⁾	12,500 ⁽⁶⁾	452,125 ⁽⁷⁾	—	111,645 ⁽⁸⁾
Rohit Patel	—	—	15,000 ⁽⁹⁾	—	25,000 ⁽¹⁰⁾	—	35,000 ⁽¹¹⁾	—
Principal stockholder								
Vestal Venture Capital	—	130,469 ⁽¹²⁾	805,500 ⁽¹³⁾	65,751 ⁽¹⁴⁾	1,112,500	—	400,000	—

- (1) Consists of 35,000 shares of our Series D convertible preferred stock purchased by Dr. Hofmann's spouse.
- (2) Consists of 130,000 shares of our Series D convertible preferred stock purchased by Dr. Dorr and his spouse.
- (3) Mr. Honigblum is the Chief Executive Officer and a 50% co-owner of Creation Capital LLC and he is currently a member of our board of directors. In accordance with the rules of the SEC, Mr. Honigblum is deemed to beneficially own 50% of the 125,001 shares of our Series A convertible preferred stock purchased by Creation Capital LLC in connection with the third closing of our offering of shares of our Series A convertible preferred stock. Mr. Honigblum disclaims beneficial ownership of the shares held by Creation Capital LLC except to the extent of his proportionate pecuniary interest therein.
- (4) See footnote (3). The warrants noted above consist of warrants to acquire 716,673 shares of our Series A convertible preferred stock issued to Mr. Honigblum at the request of Creation Capital, which Creation Capital LLC was entitled to receive as partial compensation for the services it provided as our placement agent in connection with the completion of the first, second and third closings of our offering of shares of our Series A convertible preferred stock. The warrants noted above exclude warrants to acquire 822,506 shares of Series A convertible preferred stock held by Michael Morris, the President and the other 50% co-owner of Creation Capital LLC.
- (5) See footnote (3). The warrants noted above consist of warrants to acquire 165,875 shares of our Series B convertible preferred stock issued to Mr. Honigblum at the request of Creation Capital LLC, which Creation Capital LLC was entitled to receive as partial compensation for the services it provided as our placement agent in connection with the completion of our offering of shares of our Series B convertible preferred stock. The warrants noted above exclude warrants to acquire an additional 250,000 shares of our Series B convertible preferred stock, which we were obligated to issue to Creation Capital LLC as partial compensation for such services. The warrants noted above exclude warrants to acquire 175,874 shares of Series B convertible preferred stock held by Michael Morris.
- (6) See footnote (3). Mr. Honigblum is deemed to beneficially own 50% of the 25,000 shares of our Series C convertible preferred stock purchased by Creation Capital LLC in connection with our offering of shares of

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- our Series C convertible preferred stock. Mr. Honigblum disclaims beneficial ownership of the shares held by Creation Capital LLC except to the extent of his proportionate pecuniary interest therein.
- (7) See footnote (3). The warrants noted above consist of warrants to acquire 452,125 shares of our Series C convertible preferred stock issued to Mr. Honigblum at the request of Creation Capital LLC, which Creation was entitled to receive as partial compensation for the services it provided as our placement agent in connection with the completion of our offering of our Series C convertible preferred stock. The warrants noted above exclude warrants to acquire 424,125 shares of Series C convertible preferred stock held by Michael Morris.
 - (8) See footnote (3). Mr. Honigblum is deemed to beneficially own 50% of the warrants to acquire 223,290 shares of our Series D convertible preferred stock, which Creation Capital LLC received as partial compensation for the services it provided as our placement agent in connection with the completion of our offering of shares of our Series D convertible preferred stock. Mr. Honigblum disclaims beneficial ownership of the warrants held by Creation Capital LLC except to the extent of his proportionate pecuniary interest therein.
 - (9) Consists of 15,000 shares of our Series B convertible preferred stock previously purchased by Mr. Patel, which have since been gifted to his daughter, granddaughter and two unaffiliated parties.
 - (10) Consists of 25,000 shares of our Series C convertible preferred stock purchased by Mr. Patel, which have since been gifted to The Patel Family Trust U/A/D November 7, 1996, of which Mr. Patel and his spouse are the sole beneficiaries.
 - (11) Consists of 35,000 shares of our Series D convertible preferred stock purchased by The Patel Family Trust U/A/D November 7, 1996, of which Mr. Patel and his spouse are the sole beneficiaries.
 - (12) Consists of warrants to acquire 68,694 and 127,344 shares of our Series A convertible preferred stock issued to Lyonshare Venture Capital and Vestal Venture Capital, respectively, at the request of Creation Capital LLC, which Creation Capital LLC was entitled to receive as partial compensation for the services it provided as our placement agent in connection with the completion of an offering of our Series A convertible preferred stock. Allan R. Lyons is the managing member and sole owner of 21st Century Strategic Investment Planning, L.C., the general partner for both Vestal Venture Capital and Lyonshare Venture Capital. Mr. Lyons disclaims beneficial ownership of the shares held by Vestal Venture Capital and Lyonshare Venture Capital except to the extent of his proportionate pecuniary interest therein.
 - (13) Consists of 130,000 and 675,500 shares of our Series B convertible preferred stock purchased by Lyonshare Venture Capital and Vestal Venture Capital, respectively. See footnote (12).
 - (14) Consists of warrants to acquire 16,013 and 29,738 shares of our Series B convertible preferred stock, issued to Lyonshare Venture Capital and Vestal Venture Capital, respectively, at the request of Creation Capital LLC, which Creation Capital LLC was entitled to receive as partial compensation for the services it provided as our placement agent in connection with the completion of our offering of our Series B convertible preferred stock. Also includes warrants held by Allan R. Lyons to acquire up to 20,000 shares of our Series B convertible preferred stock. See footnote (12).

Registration Rights

The holders of 15,273,673 shares of common stock, assuming the conversion of our convertible preferred stock, and holders of 4,057,040 shares of common stock, assuming the exercise of preferred stock warrants and further assuming the conversion of such shares of convertible preferred stock, have entered into an agreement with us that provides certain registration rights to these holders and certain future transferees of their securities. Such holders include the above-listed directors and holders of 5% or more of our common stock, on an as-converted basis. See “Description of Capital Stock—Registration Rights” on page 109 for a description of these rights.

Stock Option Grants

We have granted options to purchase shares of our common stock to our executive officers and directors. See “Executive Compensation—Summary Compensation Table” on page 90, “Executive Compensation—Grants of Plan-Based Awards” on page 91, “Executive Compensation—Outstanding Equity Awards at Fiscal Year-End” on page 94 and “Executive Compensation—Director Compensation” on page 98.

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Change in Control Agreements

We have entered into severance agreements with our executive officers as described in the section of this prospectus entitled “Executive Compensation—Potential Payments Upon Termination or Change in Control” on page 95.

Policy for Approval of Related Person Transactions

We believe that all the transactions described above were made on terms no less favorable to us than those that could have been obtained from unaffiliated third parties. With the exception of transactions in which related parties participated on the same terms as those of other participants who were not related parties, our board of directors reviewed and approved the transactions with each related party, namely our directors, executive officers and beneficial owners of more than 5% of our common stock, on an as-converted basis, and affiliates of our directors, executive officers and 5% stockholders, and reviewed the material facts as to a related party’s relationship or interest in a transaction that were disclosed to our board of directors prior to our board of directors’ consideration of a transaction with a related party. The transactions involving related parties were approved by our board of directors, including all of our directors who were not interested in these transactions.

Following this offering, all future related party transactions will be approved by our audit committee. Pursuant to the written charter of our audit committee, the audit committee is responsible for reviewing and approving, prior to our entry into any transaction involving related parties, all transactions in which we are a participant and in which any parties related to us has or will have a direct or indirect material interest.

In reviewing and approving these transactions, the audit committee shall obtain, or shall direct our management to obtain on its behalf, all information that the committee believes to be relevant and important to a review of the transaction prior to its approval. Following receipt of the necessary information, a discussion shall be held of the relevant factors, if deemed to be necessary by the committee, prior to approval. If a discussion is not deemed to be necessary, approval may be given by written consent of the committee. No related party transaction shall be entered into prior to the completion of these procedures.

The audit committee or its chairman, as the case may be, shall approve only those related party transactions that are determined to be in, or not inconsistent with, the best interests of us and our stockholders, taking into account all available facts and circumstances as the committee or the chairman determines in good faith to be necessary. No member of the audit committee shall participate in any review, consideration or approval of any related party transaction with respect to which the member or any of his or her immediate family members is the related party.

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PRINCIPAL STOCKHOLDERS

The following table sets forth certain information regarding the beneficial ownership of our common stock as of May 1, 2007, on an as-converted basis, and as adjusted to reflect the sale of our common stock offered by this prospectus by:

- the executive officers named in the summary compensation table;
- each of our directors;
- all of our current directors and executive officers as a group; and
- each stockholder known by us to own beneficially more than 5% of our common stock.

Beneficial ownership is determined in accordance with the rules of the SEC and includes voting or investment power with respect to the securities. Shares of common stock that may be acquired by an individual or group within 60 days of May 1, 2007, pursuant to the exercise of options or warrants, are deemed to be outstanding for the purpose of computing the percentage ownership of such individual or group, but are not deemed to be outstanding for the purpose of computing the percentage ownership of any other person shown in the table. Percentage of ownership is based on 40,535,553 shares of common stock outstanding on May 1, 2007, which assumes the conversion of all outstanding shares of preferred stock into common stock, and _____ shares of common stock outstanding after the completion of this offering.

Except as indicated in footnotes to this table, we believe that the stockholders named in this table have sole voting and investment power with respect to all shares of common stock shown to be beneficially owned by them, based on information provided to us by such stockholders. The address for each director and executive officer listed is: c/o Amedica Corporation, 615 Arapeen Drive, Suite 302, Salt Lake City, Utah 84108.

Name and Address of Beneficial Owner	Number of Shares Beneficially Owned	Percentage of Shares Beneficially Owned	
		Before Offering ⁽¹⁾	After Offering
Directors and Named Executive Officers:			
Ashok C. Khandkar, Ph.D. ⁽²⁾	4,838,333	11.7%	
Aaron A. Hofmann, M.D. ⁽³⁾	4,793,785	11.8%	
Gregg R. Honigblum ⁽⁴⁾	1,521,319	3.6%	
Max Link, Ph.D. ⁽⁵⁾	783,334	2.0%	
Rohit Patel ⁽⁶⁾	195,000	*	
Bryan J. McEntire ⁽⁷⁾	169,375	*	
Eugene B. Jones ⁽⁸⁾	140,000	*	
Lawrence D. Dorr, M.D. ⁽⁹⁾	130,000	*	
Warionex ("Jose") Belen ⁽¹⁰⁾	52,000	*	
Reyn E. Gallacher ⁽¹¹⁾	13,333	*	
Bradford S. Goodwin	—	—	
Cameron G. Rouns	—	—	
All directors and executive officers as a group (12 individuals) ⁽¹²⁾	12,517,667	28.8%	
Five Percent Stockholder:			
Vestal Venture Capital ⁽¹³⁾ 92 Hawley Street, P. O. Box 1330 Binghamton, New York 13902	3,733,127	9.2%	

* Represents beneficial ownership of less than 1% of the shares of our common stock.

(1) Based on 40,535,553 shares of common stock outstanding on May 1, 2007, which assumes the conversion of all outstanding shares of preferred stock into common stock. Unless otherwise indicated, each person or entity listed has sole investment and voting power with respect to the shares listed.

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- (2) Consists of 2,000,000 shares of our common stock and options to acquire a total of 838,333 shares of our common stock currently exercisable or exercisable within 60 days after May 1, 2007 held by Dr. Khandkar and 2,000,000 shares of our common stock held by Dr. Khandkar's spouse.
- (3) Consists of 4,743,785 shares of our common stock and options to acquire 15,000 shares of our common stock currently exercisable or exercisable within 60 days after May 1, 2007 held by Dr. Hofmann and 35,000 shares of our common stock held by Dr. Hofmann's spouse.
- (4) Mr. Honigblum is the record owner of 1,334,673 shares of our common stock, assuming the exercise of currently exercisable common stock warrants which were issued to him at the request of Creation Capital LLC, which Creation Capital LLC was entitled to receive as partial compensation for the services it provided as our placement agent in connection with the completion of our offering of our preferred stock offerings. Mr. Honigblum is the Chief Executive Officer and a 50% co-owner of Creation Capital LLC and he joined our board of directors in December 2006. Mr. Honigblum is deemed to beneficially own 50% of the 150,001 shares of our common stock and an additional 223,290 shares of our common stock, assuming the exercise of currently exercisable common stock warrants, held by Creation Capital LLC. Mr. Honigblum disclaims beneficial ownership of the shares and warrants held by Creation Capital LLC except to the extent of his proportionate pecuniary interest therein. The shares noted above exclude 519,999 shares of our common stock held by Michael Morris, the President and the other 50% co-owner of Creation Capital LLC.
- (5) Consists of 563,544 shares of our common stock and options to acquire 219,790 shares of our common stock currently exercisable or exercisable within 60 days after May 1, 2007.
- (6) Consists of 60,000 shares of our common stock held by The Patel Family Trust U/A/D November 7, 1996, of which Mr. Patel and his spouse are the sole beneficiaries, and options held by Mr. Patel to acquire 135,000 shares of our common stock currently exercisable or exercisable within 60 days after May 1, 2007.
- (7) Consists of options to acquire 169,375 shares of our common stock currently exercisable or exercisable within 60 days after May 1, 2007.
- (8) Consists of 75,000 shares of our common stock and options to acquire 65,000 shares of our common stock currently exercisable or exercisable within 60 days after May 1, 2007.
- (9) Consists of 130,000 shares of our common stock held jointly by Dr. Dorr and his spouse.
- (10) Consists of 52,000 shares of our common stock currently exercisable or exercisable within 60 days after May 1, 2007.
- (11) Consists of options to acquire an aggregate of 13,333 shares of our common stock currently exercisable or exercisable within 60 days after May 1, 2007.
- (12) See footnotes (2) through (11). Also includes options to acquire an aggregate of 21,188 shares of our common stock currently exercisable or exercisable within 60 days after May 1, 2007, held by one executive officer not named in the table. No additional shares of our common stock or options to acquire any such shares are held by the other executive officer not named in the table.
- (13) Consists of 2,904,669 shares of our common stock and an additional 157,082 shares of our common stock, assuming the exercise of currently exercisable common stock warrants held by Vestal Venture Capital; 566,669 shares of our common stock and an additional 84,707 shares of our common stock, assuming the exercise of currently exercisable common stock warrants held by Lyonshare Venture Capital; and 20,000 shares of our common stock, assuming the exercise of currently exercisable common stock warrants held by Allan R. Lyons. Mr. Lyons is the managing member and sole owner of 21st Century Strategic Investment Planning, L.C., the general partner for both Vestal Venture Capital and Lyonshare Venture Capital. Mr. Lyons disclaims beneficial ownership of the shares held by Vestal Venture Capital and Lyonshare Venture Capital except to the extent of his proportionate pecuniary interest therein.

DESCRIPTION OF CAPITAL STOCK

Upon completion of this offering, we will be authorized to issue _____ shares of common stock, \$0.01 par value per share, and _____ shares of preferred stock, \$0.01 par value per share, and there will be _____ shares of common stock and no shares of preferred stock outstanding. Assuming the conversion of our preferred stock as of May 1, 2007, we had 40,535,553 shares of common stock outstanding held of record by 337 stockholders, and there were outstanding options to purchase 3,457,627 shares of common stock and outstanding warrants to acquire 4,057,040 shares of common stock, assuming the conversion of preferred stock warrants into common stock warrants. The following description summarizes the most important terms of our capital stock. Because it is only a summary, it does not contain all the information that may be important to you. For a complete description you should refer to our amended and restated certificate of incorporation and amended and restated bylaws, effective upon completion of this offering, copies of which have been filed as exhibits to the registration statement, and to the applicable provisions of the Delaware General Corporation Law.

Common Stock

Holders of common stock are entitled to one vote for each share held of record on all matters submitted to a vote of the stockholders, and do not have cumulative voting rights. Subject to preferences that may be applicable to any outstanding shares of preferred stock, holders of common stock are entitled to receive ratably such dividends, if any, as may be declared from time to time by our board of directors out of funds legally available for dividend payments. All outstanding shares of common stock are fully paid and nonassessable, and the shares of common stock to be issued upon completion of this offering will be fully paid and nonassessable. The holders of common stock have no preferences or rights of conversion, exchange, pre-emption or other subscription rights. There are no redemption or sinking fund provisions applicable to the common stock. In the event of any liquidation, dissolution or winding-up of our affairs, holders of common stock will be entitled to share ratably in our assets that are remaining after payment or provision for payment of all of our debts and obligations and after liquidation payments to holders of outstanding shares of preferred stock, if any.

Preferred Stock

Upon the closing of this offering, all outstanding shares of our preferred stock will have been converted into shares of our common stock. Following this offering, our amended and restated certificate of incorporation will be amended and restated to delete all reference to such shares of preferred stock. The preferred stock, if issued, would have priority over the common stock with respect to dividends and other distributions, including the distribution of assets upon liquidation. Our board of directors has the authority, without further stockholder authorization, to issue from time to time shares of preferred stock in one or more series and to fix the terms, limitations, relative rights and preferences and variations of each series. Although we have no present plans to issue any shares of preferred stock, the issuance of shares of preferred stock, or the issuance of rights to purchase such shares, could decrease the amount of earnings and assets available for distribution to the holders of common stock, could adversely affect the rights and powers, including voting rights, of the common stock, and could have the effect of delaying, deterring or preventing a change in control of us or an unsolicited acquisition proposal.

Warrants

As of May 1, 2007, we had outstanding warrants to purchase a total of:

- 2,100,000 shares of Series A convertible preferred stock at an exercise price of \$0.66 per share. These warrants are currently exercisable through the seventh anniversary of the date of issuance of such warrants, or January 28, 2011, and upon exercise may be converted into an aggregate of 2,100,000 shares of our common stock.
- 500,000 shares of Series B convertible preferred stock at an exercise price of \$1.32 per share. These warrants are currently exercisable through the seventh anniversary of the date of issuance of such

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warrants, or November 9, 2011, and upon exercise may be converted into an aggregate of 500,000 shares of our common stock.

- 1,203,750 shares of Series C convertible preferred stock at an exercise price of \$2.20 per share. These warrants are currently exercisable through the seventh anniversary of the date of issuance of such warrants, or February 24, 2013, and upon exercise may be converted into an aggregate of 1,203,750 shares of our common stock.
- 253,290 shares of Series D convertible preferred stock at an exercise price of \$3.30 per share. Upon completion of the offering, these warrants will become exercisable through the seventh anniversary of the date of issuance of such warrants, or April 27, 2014 and upon exercise may be converted into an aggregate of 253,290 shares of our common stock.

These warrants provide for adjustments of the exercise price and the number of shares underlying the warrants upon the occurrence of certain events, including stock dividends, stock splits, reclassifications or other changes in our corporate structure. The holders of these warrants have registration rights that are outlined below under the heading “Registration Rights.”

Registration Rights

The holders of 15,273,673 shares of common stock, assuming the conversion of our convertible preferred stock, and holders of 4,057,040 shares of common stock, assuming the exercise of preferred stock warrants and further assuming the conversion of such shares of convertible preferred stock, have entered into an agreement with us that provides certain registration rights to such holders and certain future transferees of their securities. These registration rights are subject to certain conditions and limitations, including our right, based on advice of the lead managing underwriter of a future offering, to limit the number of shares included in any such registration under certain circumstances. We are generally required to pay all expenses incurred in connection with registrations effected in connection with the registration rights below, excluding underwriting discounts and commissions. The registration rights described below with respect to these securities terminate on such date as the holders of such registrable securities become eligible to sell them under Rule 144 under the Securities Act.

Demand Rights. At any time after 180 days following the completion of our initial public offering, subject to specified limitations, holders of not less than a majority of then existing registrable securities may require that we effect the registration on Form S-1 or Form S-3 (or any other form we are qualified to use) of securities owned by such holders having an aggregate anticipated price to the public of at least \$10,000,000 (before selling expenses), or at least \$5,000,000 (before selling expenses) in the case of a Form S-3 registration, for sale under the Securities Act. We may be required to effect up to four such registrations in total. We may be required to effect up to two such registrations during the one-year period following the date holders initially notify us of their request that we effect such a registration. Holders of registrable securities who are not among the holders who initially request that we effect a registration are entitled to notice and are entitled to include their shares of common stock in the registration.

Shelf Registration Rights. At any time after we become eligible to file a registration statement on Form S-3, holders of not less than a majority of registrable securities may request, in writing, that we effect the registration on Form S-3, or any successor or similar short form, of securities having an aggregate anticipated offering price to the public of at least \$10,000,000 (before selling expenses). We may be required to effect up to two such registrations during the one-year period following the date holders initially notify us of their request that we effect such a registration. Holders with these registration rights who are not among the holders who initially requested that we effect a registration are entitled to notice and are entitled to include their shares of common stock in the registration.

Piggyback Rights. If, at any time commencing 180 days following the completion of our initial public offering, we propose to register shares of our common stock under the Securities Act in connection with a public offering of common stock solely for cash, we will, prior to such filing, give written notice to all holders having

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registration rights of our intention to do so. Upon the written request of any holder or holders of registrable securities given to us in a timely manner, we shall cause all securities which we have been requested by such holder or holders to register to be registered under the Securities Act to the extent necessary to permit their sale or other disposition in accordance with the intended methods of distribution specified in the request of the holder or holders. We shall have the right to withdraw any such registration without obligation to any stockholder, except for our obligation to pay all registration expenses related to such withdrawn registration. In addition, under certain circumstances, the underwriters, if any, may limit the number of shares included in any such registration. These piggyback registration rights do not apply to registrations of our securities that we initiate that are (i) incidental to any of our stock option plans or other employee benefit plans or a dividend reinvestment plan, (ii) incidental to a business combination or any other similar transaction, the purpose of which is not to raise capital, or (iii) pursuant to a so-called “unallocated” or “universal” shelf registration statement.

Effects of Anti-Takeover Provisions of Our Amended and Restated Certificate of Incorporation, Our Amended and Restated Bylaws and Delaware Law

The provisions of (1) Delaware law, (2) our amended and restated certificate of incorporation to be effective upon completion of this offering and (3) our amended and restated bylaws to be effective upon completion of this offering discussed below could discourage or make it more difficult to prevail in a proxy contest or effect other change in our management or the acquisition of control by a holder of a substantial amount of our voting stock. It is possible that these provisions could make it more difficult to accomplish, or could deter, transactions that stockholders may otherwise consider to be in their best interests or our best interests. These provisions are intended to enhance the likelihood of continuity and stability in the composition of our board of directors and in the policies formulated by the board of directors and to discourage certain types of transactions that may involve an actual or threatened change of control of our company. These provisions are designed to reduce our vulnerability to an unsolicited acquisition proposal. The provisions also are intended to discourage certain tactics that may be used in proxy fights. These provisions also may have the effect of preventing changes in our management.

Delaware Statutory Business Combinations Provision. We are subject to the anti-takeover provisions of Section 203 of the Delaware General Corporation Law. In general, Section 203 prohibits a publicly-held Delaware corporation from engaging in a “business combination” with an “interested stockholder” for a period of three years after the date of the transaction in which the person became an interested stockholder, unless the business combination is, or the transaction in which the person became an interested stockholder was, approved in a prescribed manner or another prescribed exception applies. For purposes of Section 203, a “business combination” is defined broadly to include a merger, asset sale or other transaction resulting in a financial benefit to the interested stockholder, and, subject to certain exceptions, an “interested stockholder” is a person who, together with his or her affiliates and associates, owns (or within three years prior, did own) 15% or more of the corporation’s voting stock.

Classified Board of Directors; Appointment of Directors to Fill Vacancies; Removal of Directors for Cause. Our amended and restated certificate of incorporation provides that our board of directors will be divided into three classes as nearly equal in number as possible. Each year the stockholders will elect the members of one of the three classes to a three-year term of office. All directors elected to our classified board of directors will serve until the election and qualification of their respective successors or their earlier resignation or removal. The board of directors is authorized to create new directorships and to fill any positions so created and is permitted to specify the class to which any new position is assigned. The person filling any of these positions would serve for the term applicable to that class. The board of directors (or its remaining members, even if less than a quorum) is also empowered to fill vacancies on the board of directors occurring for any reason for the remainder of the term of the class of directors in which the vacancy occurred. Members of the board of directors may only be removed for cause. These provisions are likely to increase the time required for stockholders to change the composition of the board of directors. For example, in general, at least two annual meetings will be necessary for stockholders to effect a change in a majority of the members of the board of directors.

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Authorization of Blank Check Preferred Stock. Our amended and restated certificate of incorporation provides that, upon completion of this offering, our board of directors will be authorized to issue, without stockholder approval, blank check preferred stock. Blank check preferred stock can operate as a defensive measure known as a “poison pill” by diluting the stock ownership of a potential hostile acquirer to prevent an acquisition that is not approved by our board of directors.

Advance Notice Provisions for Stockholder Proposals and Stockholder Nominations of Directors. Our amended and restated bylaws provide that, for nominations to the board of directors or for other business to be properly brought by a stockholder before a meeting of stockholders, the stockholder must first have given timely notice of the proposal in writing to our Secretary. For an annual meeting, a stockholder’s notice generally must be delivered not less than 45 days nor more than 75 days prior to the anniversary of the mailing date of the proxy statement for the previous year’s annual meeting. For a special meeting, the notice must generally be delivered by the later of 90 days prior to the special meeting or ten days following the day on which public announcement of the meeting is first made. Detailed requirements as to the form of the notice and information required in the notice are specified in the amended and restated bylaws. If it is determined that business was not properly brought before a meeting in accordance with our bylaw provisions, this business will not be conducted at the meeting.

Special Meetings of Stockholders. Special meetings of the stockholders may be called only by our board of directors pursuant to a resolution adopted by a majority of the total number of directors.

No Stockholder Action by Written Consent. Our amended and restated certificate of incorporation does not permit our stockholders to act by written consent. As a result, any action to be effected by our stockholders must be effected at a duly called annual or special meeting of the stockholders.

Super-Majority Stockholder Vote required for Certain Actions. The Delaware General Corporation Law provides generally that the affirmative vote of a majority of the shares entitled to vote on any matter is required to amend a corporation’s certificate of incorporation or bylaws, unless the corporation’s certificate of incorporation or bylaws, as the case may be, requires a greater percentage. Our amended and restated certificate of incorporation requires the affirmative vote of the holders of at least % of our outstanding voting stock to amend or repeal any of the provisions discussed in this section of this prospectus entitled “Effect of Anti-Takeover Provisions of Our Amended and Restated Certificate of Incorporation, Our Amended and Restated Bylaws and Delaware Law” or to reduce the number of authorized shares of common stock or preferred stock. This % stockholder vote would be in addition to any separate class vote that might in the future be required pursuant to the terms of any preferred stock that might then be outstanding. A % vote is also required for any amendment to, or repeal of, our amended and restated bylaws by the stockholders. Our amended and restated bylaws may be amended or repealed by a simple majority vote of the board of directors.

Transfer Agent and Registrar

The transfer agent and registrar for our common stock will be American Stock Transfer and Trust Company.

Listing

At the present time, there is no established trading market for our common stock. We have applied to list our common stock on The NASDAQ Global Market under the symbol “AMCA.”

SHARES ELIGIBLE FOR FUTURE SALE

Prior to this offering, there has been no market for our common stock. Future sales of substantial amounts of our common stock in the public market, or the anticipation of such sales, could adversely affect market prices prevailing from time to time. Furthermore, because only a limited number of shares will be available for sale shortly after this offering due to existing contractual and legal restrictions on resale as described below, there may be sales of substantial amounts of our common stock in the public market after the restrictions lapse. This may adversely affect the prevailing market price and our ability to raise equity capital in the future.

Upon completion of this offering, we will have _____ shares of common stock outstanding, assuming the conversion of all outstanding shares of convertible preferred stock, no exercise of the underwriters' over-allotment option and no exercise of any options and warrants outstanding as of March 31, 2007. Of these shares, all of the shares sold in this offering will be freely transferable without restriction or registration under the Securities Act, except for any shares purchased by one of our existing "affiliates," as that term is defined in Rule 144 under the Securities Act. The remaining shares of common stock are "restricted shares" as defined in Rule 144. Restricted shares may be sold in the public market only if registered or if they qualify for an exemption from registration under Rules 144, 144(k) or 701 of the Securities Act, as described below. Substantially all of these restricted shares will be subject to the 180-day lock-up period described below. Immediately after the 180-day lock-up period, 16,567,865 shares will be freely tradable under Rule 144(k) or Rule 701(g)(3) under the Securities Act and 19,496,188 shares will be eligible for resale under Rule 144 or Rule 701(g)(3), subject to volume limitations. 4,471,500 shares will be freely tradable or eligible for resale at various times after the 180-day lock-up period under Rule 144, Rule 144(k) or Rule 701(g)(3), some of which are subject to volume limitations. In addition, upon completion of this offering, a holder of warrants to acquire shares of our common stock will be able to net exercise such shares by surrendering a portion of that holder's warrants as payment of the exercise price rather than paying the exercise price in cash. As of May 1, 2007, warrants to acquire approximately 1,717,452 and 2,086,298 shares of our common stock would be eligible to rely upon Rule 144(k) and Rule 144, respectively, if they are net exercised, subject to the lock-up agreements. The lock-up agreements may be extended or shortened in certain circumstances. Please see the section below entitled "Lock-up Agreements" for further information.

Rule 144

In general, under Rule 144 as currently in effect, beginning 90 days after the effective date of the registration statement of which this prospectus is a part, a person, or persons whose shares are aggregated, who owns shares that were purchased from us, or any affiliate, at least one year previously, is entitled to sell within any three-month period a number of shares that does not exceed the greater of:

- 1% of our then-outstanding shares of common stock, which will equal approximately _____ shares immediately after this offering; or
- the average weekly trading volume of our common stock on The NASDAQ Global Market during the four calendar weeks preceding the filing of a notice of the sale on Form 144.

Sales under Rule 144 are also subject to manner of sale provisions, notice requirements and the availability of current public information about us. Rule 144 also provides that affiliates that sell our common stock that are not restricted securities must still comply with certain other restrictions of that rule on their manner of sale of our shares, other than the holding period requirement. We are unable to estimate the number of shares that will be sold under Rule 144 since this will depend on the market price for our common stock, the personal circumstances of the stockholder and other factors.

Rule 144(k)

Under Rule 144(k) as currently in effect, a person who is not deemed to have been one of our affiliates at any time during the 90 days preceding a sale, and who owns shares within the definition of "restricted securities"

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under Rule 144 that were purchased from us, or any affiliate, at least two years previously, would be entitled to sell shares under Rule 144(k) without regard to the volume limitations, manner of sale provisions, public information requirements or notice requirements described above.

Rule 701

In general, under Rule 701 as currently in effect, any of our employees, directors, officers, consultants or advisors who purchased shares from us in connection with a qualified compensatory stock or option plan or other written agreement before the effective date of this offering is eligible to resell such shares 90 days after the effective date of this offering in reliance on Rule 144. Securities issued in reliance on Rule 701 are restricted securities and, subject to the contractual restrictions described above, beginning 90 days after the date of this prospectus, may be sold by persons other than “affiliates,” as defined in Rule 144, subject only to the manner of sale provisions of Rule 144 and by “affiliates” under Rule 144 without compliance with its one year minimum holding requirement.

Registration Rights

The holders of 15,273,673 shares of common stock, assuming the conversion of our convertible preferred stock, and holders of 4,057,040 shares of common stock, assuming the exercise of preferred stock warrants and further assuming the conversion of such shares of convertible preferred stock, have entered into an agreement with us that provides certain registration rights to these holders and certain future transferees of their securities. Registration of these shares under the Securities Act would result in these shares becoming freely tradable without restriction under the Securities Act immediately upon the effectiveness of the registration, except for shares held by affiliates. See “Description of Capital Stock—Registration Rights.”

Warrants

As of May 1, 2007, we had outstanding warrants to purchase a total of:

- 2,100,000 shares of Series A convertible preferred stock at an exercise price of \$0.66 per share. These warrants are currently exercisable through the seventh anniversary of the date of issuance of such warrants, or January 28, 2011, and upon exercise may be converted into an aggregate of 2,100,000 shares of our common stock.
- 500,000 shares of Series B convertible preferred stock at an exercise price of \$1.32 per share. These warrants are currently exercisable through the seventh anniversary of the date of issuance of such warrants, or November 9, 2011, and upon exercise may be converted into an aggregate of 500,000 shares of our common stock.
- 1,203,750 shares of Series C convertible preferred stock at an exercise price of \$2.20 per share. These warrants are currently exercisable through the seventh anniversary of the date of issuance of such warrants, or February 24, 2013 and upon exercise may be converted into an aggregate of 1,203,750 shares of our common stock.
- 253,290 shares of Series D convertible preferred stock at an exercise price of \$3.30 per share. Upon completion of the offering, these warrants will become exercisable and upon exercise through the seventh anniversary of the date of issuance of such warrants, or April 27, 2014, may be converted into an aggregate of 253,290 shares of our common stock.

All 4,057,040 shares of common stock issuable pursuant to these warrants are subject to lock-up agreements.

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Stock Options

As of March 31, 2007, options to purchase a total of 3,457,627 shares of common stock were outstanding and exercisable. Substantially all of the shares subject to options are subject to lock-up agreements. As of March 31, 2007, an additional 857,163 shares of common stock were available for future option grants under our 2003 Stock Option Plan. Our 2007 Stock Plan was not in effect as of March 31, 2007.

Upon completion of this offering, we intend to file a registration statement on Form S-8 under the Securities Act covering all shares of common stock subject to outstanding options or issuable pursuant to our stock plans. Subject to Rule 144 volume limitations applicable to affiliates, shares registered under any registration statements will be available for sale in the open market, except to the extent that the shares are subject to vesting restrictions with us or the contractual restrictions described below.

Lock-up Agreements

We, all of our officers, directors and substantially all of our stockholders have agreed, subject to limited exceptions, not to offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, lend or otherwise transfer or dispose of, directly or indirectly, file any registration statement with the SEC relating to the offering of any shares of our common stock or any securities convertible into or exercisable for shares of our common stock, or enter into any swap or other arrangement that transfers to another, in whole or in part, any of the economic consequences of ownership of any shares of common stock or any securities convertible into or exercisable or exchangeable for shares of common stock held prior to the offering during the period beginning on the date of this prospectus and ending 180 days thereafter, whether any such transaction is to be settled by delivery of our common stock or such other securities, cash or otherwise, without the prior written consent of Morgan Stanley & Co. Incorporated.

Morgan Stanley & Co. Incorporated may in its sole discretion choose to release any or all of these shares from these restrictions prior to the expiration of the 180-day period. The lock-up restrictions will not apply to transactions relating to common stock acquired in open market transactions after the closing of this offering provided that no filing under Section 16(a) of the Exchange Act is required or will be voluntarily made in connection with subsequent sales of common stock or other securities acquired in such market transactions. The lock-up restrictions also will not apply to certain transfers not involving a disposition for value, provided that the recipient agrees to be bound by these lock-up restrictions and provided that such transfers are not required to be reported in any public report or filing with the SEC, or otherwise, during the lock-up period.

The 180-day restricted period described above will be extended if:

- during the last 17 days of the 180-day restricted period, we issue an earnings release or disclose material news or a material event relating to our company occurs; or
- prior to the expiration of the 180-day restricted period, we announce that we will release earnings results during the 16-day period beginning on the last day of the 180-day restricted period;

in which case the restrictions described above will continue to apply until the expiration of the 18-day period beginning on the issuance of the earnings release, the disclosure of the material news or the occurrence of the material event.

MATERIAL U.S. FEDERAL TAX CONSEQUENCES FOR NON-U.S. HOLDERS OF COMMON STOCK

The following discussion is a general summary of the material U.S. federal income tax consequences of the ownership and disposition of our common stock applicable to “Non-U.S. Holders.” As used herein, a Non-U.S. Holder means a beneficial owner of our common stock that is neither a U.S. person nor a partnership for U.S. federal income tax purposes, and that will hold shares of our common stock as capital assets. For U.S. federal income tax purposes, a U.S. person includes:

- an individual who is a citizen or resident of the United States;
- a corporation (or other business entity treated as a corporation for U.S. federal income tax purposes) created or organized in the United States or under the laws of the United States, any state thereof or the District of Columbia;
- an estate the income of which is includible in gross income regardless of source; or
- a trust that (A) is subject to the primary supervision of a court within the United States and the control of one or more U.S. persons, or (B) otherwise has validly elected to be treated as a U.S. domestic trust for U.S. federal income tax purposes.

If a partnership (including an entity treated as a partnership for U.S. federal income tax purposes) holds shares of our common stock, the U.S. federal income tax treatment of each partner generally will depend on the status of the partner and the activities of the partnership and the partner. Partnerships acquiring our common stock, and partners in such partnerships, should consult their own tax advisors with respect to the U.S. federal income tax consequences of the ownership and disposition of our common stock.

This summary does not consider specific facts and circumstances that may be relevant to a particular Non-U.S. Holder’s tax position and does not consider U.S. state and local or non-U.S. tax consequences. It also does not consider Non-U.S. Holders subject to special tax treatment under the U.S. federal income tax laws (including partnerships or other pass-through entities, banks and insurance companies, dealers in securities, holders of our common stock held as part of a “straddle,” “hedge,” “conversion transaction” or other risk-reduction transaction, controlled foreign corporations, passive foreign investment companies, companies that accumulate earnings to avoid U.S. federal income tax, foreign tax-exempt organizations, former U.S. citizens or residents, persons who hold or receive common stock as compensation and persons subject to the alternative minimum tax). This summary is based on provisions of the Internal Revenue Code, applicable final, temporary and proposed U.S. Treasury regulations, administrative pronouncements of the U.S. Internal Revenue Service, or the IRS, and judicial decisions, all as in effect on the date hereof, and all of which are subject to change, possibly on a retroactive basis, and different interpretations.

This summary is included herein as general information only. Accordingly, each prospective Non-U.S. Holder is urged to consult its own tax advisor with respect to the U.S. federal, state, local and non-U.S. income, estate and other tax consequences of owning and disposing of our common stock.

U.S. Trade or Business Income

For purposes of this discussion, dividend income and gain on the sale or other taxable disposition of our common stock will be considered to be “U.S. trade or business income” if such income or gain is (i) effectively connected with the conduct by a Non-U.S. Holder of a trade or business within the United States and (ii) in the case of a Non-U.S. Holder that is eligible for the benefits of an income tax treaty with the United States, attributable to a permanent establishment (or, for an individual, a fixed base) maintained by the Non-U.S. Holder in the United States. Generally, U.S. trade or business income is not subject to U.S. federal withholding tax (provided the Non-U.S. Holder complies with applicable certification and disclosure requirements); instead, U.S. trade or business income is subject to U.S. federal income tax on a net income basis at regular U.S. federal

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income tax rates in the same manner as a U.S. person, unless an applicable income tax treaty provides otherwise. Any U.S. trade or business income received by a corporate Non-U.S. holder may be subject to an additional “branch profits tax” at a 30% rate or such lower rate as may be specified by an applicable income tax treaty.

Dividends

Distributions of cash or property that we pay will constitute dividends for U.S. federal income tax purposes to the extent paid from our current or accumulated earnings and profits (as determined under U.S. federal income tax principles). A Non-U.S. Holder generally will be subject to U.S. federal withholding tax at a 30% rate, or, if the Non-U.S. Holder is eligible, at a reduced rate prescribed by an applicable income tax treaty, on any dividends received in respect of our common stock. If the amount of a distribution exceeds our current and accumulated earnings and profits, such excess first will be treated as a tax-free return of capital to the extent of the Non-U.S. Holder’s tax basis in our common stock (with a corresponding reduction in such Non-U.S. Holder’s tax basis in our common stock), and thereafter will be treated as capital gain. In order to obtain a reduced rate of U.S. federal withholding tax under an applicable income tax treaty, a Non-U.S. Holder will be required to provide a properly executed IRS Form W-8BEN certifying under penalties of perjury its entitlement to benefits under the treaty. Special certification requirements and other requirements apply to certain Non-U.S. Holders that are entities rather than individuals. A Non-U.S. Holder of our common stock that is eligible for a reduced rate of U.S. federal withholding tax under an income tax treaty may obtain a refund or credit of any excess amounts withheld by filing an appropriate claim for a refund with the IRS on a timely basis. A Non-U.S. Holder should consult its own tax advisor regarding its possible entitlement to benefits under an income tax treaty and the filing of a U.S. tax return for claiming a refund of U.S. federal withholding tax.

The U.S. federal withholding tax does not apply to dividends that are U.S. trade or business income, as defined and discussed above, of a Non-U.S. Holder who provides a properly executed IRS Form W-8ECI, certifying under penalties of perjury that the dividends are effectively connected with the Non-U.S. Holder’s conduct of a trade or business within the United States.

Dispositions of Our Common Stock

A Non-U.S. Holder generally will not be subject to U.S. federal income or withholding tax in respect of any gain on a sale or other disposition of our common stock unless:

- the gain is U.S. trade or business income, as defined and discussed above;
- the Non-U.S. Holder is an individual who is present in the United States for 183 or more days in the taxable year of the disposition and meets other conditions; or
- we are or have been a “U.S. real property holding corporation,” or a USRPHC, under section 897 of the Internal Revenue Code at any time during the shorter of the five year period ending on the date of disposition and the Non-U.S. Holder’s holding period for our common stock.

In general, a corporation is a USRPHC if the fair market value of its “U.S. real property interests” (as defined in the Internal Revenue Code and applicable Treasury regulations) equals or exceeds 50% of the sum of the fair market value of its worldwide real property interests and its other assets used or held for use in a trade or business. If we are determined to be a USRPHC, the U.S. federal income and withholding taxes relating to interests in USRPHCs nevertheless will not apply to gains derived from the sale or other disposition of our common stock by a Non-U.S. Holder whose shareholdings, actual and constructive, at all times during the applicable period, amount to 5% or less of our common stock, provided that our common stock is regularly traded on an established securities market, within the meaning of the applicable Treasury regulations. We are not currently a USRPHC, and we do not anticipate becoming a USRPHC in the future. However, no assurance can be given that we will not be a USRPHC, or that our common stock will be considered regularly traded on an established securities market, when a Non-U.S. Holder sells its shares of our common stock.

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Information Reporting and Backup Withholding Requirements

We must annually report to the IRS and to each Non-U.S. Holder any dividend income that is subject to U.S. federal withholding tax, or that is exempt from such withholding tax pursuant to an income tax treaty. Copies of these information returns also may be made available under the provisions of a specific treaty or agreement to the tax authorities of the country in which the Non-U.S. Holder resides. Under certain circumstances, the Internal Revenue Code imposes a backup withholding obligation (currently at a rate of 28%) on certain reportable payments. Dividends paid to a Non-U.S. Holder of our common stock generally will be exempt from backup withholding if the Non-U.S. Holder provides a properly executed IRS Form W-8BEN or otherwise establishes an exemption.

The payment of the proceeds from the disposition of our common stock to or through the U.S. office of any broker, U.S. or foreign, will be subject to information reporting and possible backup withholding unless the holder certifies as to its non-U.S. status under penalties of perjury or otherwise establishes an exemption, provided that the broker does not have actual knowledge or reason to know that the holder is a U.S. person or that the conditions of any other exemption are not, in fact, satisfied. The payment of the proceeds from the disposition of our common stock to or through a non-U.S. office of a non-U.S. broker is one that will not be subject to information reporting or backup withholding unless the non-U.S. broker has certain types of relationships with the United States (a “U.S. related person”). In the case of the payment of the proceeds from the disposition of our common stock to or through a non-U.S. office of a broker that is either a U.S. person or a U.S. related person, the Treasury regulations require information reporting (but not backup withholding) on the payment unless the broker has documentary evidence in its files that the holder is a Non-U.S. Holder and the broker has no knowledge to the contrary. Non-U.S. Holders should consult their own tax advisors on the application of information reporting and backup withholding to them in their particular circumstances (including upon their disposition of our common stock).

Backup withholding is not an additional tax. Any amounts withheld under the backup withholding rules from a payment to a Non-U.S. Holder will be refunded or credited against the Non-U.S. Holder’s U.S. federal income tax liability, if any, if the Non-U.S. Holder provides the required information to the IRS on a timely basis. Non-U.S. Holders should consult their own tax advisors regarding the filing of a U.S. tax return for claiming a refund of such backup withholding.

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UNDERWRITERS

Under the terms and subject to the conditions contained in an underwriting agreement dated the date of this prospectus, the underwriters named below, for whom Morgan Stanley & Co. Incorporated, Jefferies & Company, Inc. and CIBC World Markets Corp. are acting as representatives, have severally agreed to purchase, and we have agreed to sell to them, the number of shares of common stock indicated in the table below:

<u>Name</u>	<u>Number of Shares</u>
Morgan Stanley & Co. Incorporated	
Jefferies & Company, Inc.	
CIBC World Markets Corp.	
Total	

The underwriters are offering the shares of common stock subject to their acceptance of the shares from us and subject to prior sale. The underwriting agreement provides that the obligations of the several underwriters to pay for and accept delivery of the shares of common stock offered by this prospectus are subject to the approval of certain legal matters by their counsel and to other conditions. The underwriters are obligated to take and pay for all of the shares of common stock offered by this prospectus if any shares are taken. However, the underwriters are not required to take or pay for the shares covered by the underwriters' over-allotment option described below.

The underwriters initially propose to offer part of the shares of common stock directly to the public at the public offering price listed on the cover page of this prospectus, less underwriting discounts and commissions, and part to certain dealers at a price that represents a concession not in excess of \$ _____ a share under the public offering price. No underwriter may allow, and no dealer may re-allow, any concession to other underwriters or to certain dealers. After the initial offering of the shares of common stock, the offering price and other selling terms may from time to time be varied by the representatives.

We have granted to the underwriters an option, exercisable for 30 days from the date of this prospectus, to purchase up to an aggregate of _____ additional shares of common stock at the public offering price, less underwriting discounts and commissions. The underwriters may exercise this option solely for the purpose of covering over-allotments, if any, made in connection with the offering of the shares of common stock offered by this prospectus. To the extent the option is exercised, each underwriter will become obligated, subject to certain conditions, to purchase approximately the same percentage of the additional shares of common stock as the number listed next to the underwriter's name in the preceding table bears to the total number of shares of common stock listed next to the names of all underwriters in the preceding table. If the underwriters' over-allotment option is exercised in full, the total price to the public would be \$ _____, the total underwriters' discounts and commissions would be \$ _____ and the total proceeds to us would be \$ _____.

The following table shows the per share and total underwriting discounts and commissions that we are to pay to the underwriters in connection with this offering. These amounts are shown assuming both no exercise and full exercise of the underwriters' option.

	<u>No Exercise</u>	<u>Full Exercise</u>
Per share	\$ _____	\$ _____
Total	\$ _____	\$ _____

In addition, we estimate that the expenses of this offering other than underwriting discounts and commissions payable by us will be approximately \$ _____ million.

The underwriters have informed us that they do not intend to make sales to accounts over which they exercise discretionary authority in excess of 5% of the total number of shares of common stock offered by them.

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We have applied to have our common stock approved for listing on The NASDAQ Global Market under the symbol “AMCA.”

We, all of our directors and officers and holders of substantially all our outstanding stock and securities exercisable for or convertible into shares of common stock have agreed that, subject to certain limitations, without the prior written consent of Morgan Stanley & Co. Incorporated on behalf of the underwriters, we and they will not, during the period beginning on the date of this prospectus and ending 180 days thereafter:

- offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, lend or otherwise transfer or dispose of, directly or indirectly, any shares of our common stock or any securities convertible into or exercisable or exchangeable for shares of our common stock;
- file any registration statement with the SEC relating to the offering of any shares of our common stock or any securities convertible into or exercisable for shares of our common stock; or
- enter into any swap or other arrangement that transfers to another, in whole or in part, any of the economic consequences of ownership of the common stock;

whether any transaction described above is to be settled by delivery of our common stock or such other securities, in cash or otherwise.

Moreover, the 180-day restricted period described in the preceding paragraph will be extended if:

- during the last 17 days of the 180-day restricted period, we issue an earnings release or disclose material news or a material event relating to our company occurs; or
- prior to the expiration of the 180-day restricted period, we announce that we will release earnings results during the 16-day period beginning on the last day of the 180-day restricted period;

in which case the restrictions described in the immediately preceding sentence will continue to apply until the expiration of the 18-day period beginning on the issuance of the earnings release, the disclosure of the material news or the occurrence of the material event.

The restrictions described in the immediately preceding two paragraphs do not apply to:

- the sale of shares to the underwriters;
- the issuance by us of shares of common stock upon the exercise of an option or a warrant or the conversion of a security outstanding on the date of this prospectus of which the underwriters have been advised in writing; or
- transactions by any person other than us relating to shares of common stock or other securities acquired in open market transactions after the completion of this offering of shares.

At our request, the underwriters have reserved for sale at the initial public offering price up to _____ of the shares offered hereby for officers, directors, employees and certain other persons associated with us. The number of shares available for sale to the general public will be reduced to the extent such persons purchase such reserved shares. Any reserved shares not so purchased will be offered by the underwriters to the general public on the same basis as the other shares offered hereby. Any shares purchased through this directed share program will be subject to an agreement between the purchaser of the shares and Morgan Stanley & Co. Incorporated, providing that the shares may not be sold, transferred or otherwise disposed of as described in the preceding paragraphs for a period of 25 days after the date of this prospectus, or 180 days after the date of this prospectus if the purchaser is one of our directors or executive officers. The directed share program is being arranged through Morgan Stanley & Co. Incorporated.

In order to facilitate this offering of common stock, the underwriters may engage in transactions that stabilize, maintain or otherwise affect the price of the common stock. Specifically, the underwriters may sell

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more shares than they are obligated to purchase under the underwriting agreement, creating a short position. A short sale is covered if the short position is no greater than the number of shares available for purchase by the underwriters under the over-allotment option. The underwriters can close out a covered short sale by exercising the over-allotment option or by purchasing shares in the open market. In determining the source of shares to close out a covered short sale, the underwriters will consider, among other things, the open market price of shares compared to the price available under the over-allotment option. The underwriters may also sell shares in excess of the over-allotment option, creating a naked short position. The underwriters must close out any naked short position by purchasing shares in the open market. A naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of the common stock in the open market after pricing that could adversely affect investors who purchase in this offering. In addition, to stabilize the price of the common stock, the underwriters may bid for and purchase shares of common stock in the open market. Finally, the underwriting syndicate may reclaim selling concessions allowed to an underwriter or a dealer for distributing the common stock in the offering if the syndicate repurchases previously distributed common stock to cover syndicate short positions or to stabilize the price of the common stock. These activities may raise or maintain the market price of the common stock above independent market levels or prevent or retard a decline in the market price of the common stock. The underwriters are not required to engage in these activities and may end any of these activities at any time.

The underwriters may in the future provide investment banking services to us for which they would receive customary compensation.

We and the underwriters have agreed to indemnify each other against certain liabilities, including liabilities under the Securities Act.

In relation to each Member State of the European Economic Area which has implemented the Prospectus Directive (each a “Relevant Member State”), each underwriter has represented and agreed that it has not made and will not make an offer to the public of any shares of common stock in that Relevant Member State, except that it may make an offer to the public of shares of common stock in that Relevant Member State at any time under the following exemptions under the Prospectus Directive:

- to legal entities which are authorized or regulated to operate in the financial markets or, if not so authorized or regulated, whose corporate purpose is solely to invest in securities;
- to any legal entity which has two or more of (1) an average of at least 250 employees during the last financial year; (2) a total balance sheet of more than €43,000,000 and (3) an annual net turnover of more than €50,000,000, as shown in its last annual or consolidated accounts;
- an offer addressed to fewer than 100 natural or legal persons in that Relevant Member State (other than qualified investors); or
- in any other circumstances which do not require the publication by us of a prospectus pursuant to Article 3(2) of the Prospectus Directive.

For the purposes of the above, the expression an “offer to the public” in relation to any shares of common stock in any Relevant Member State means the communication in any form and by any means of sufficient information on the terms of the offer and the shares of common stock to be offered so as to enable an investor to decide to purchase or subscribe the shares of common stock, as the same may be varied in that Member State by any measure implementing the Prospectus Directive in that Member State, the expression “Prospectus Directive” means Directive 2003/71/EC and includes any relevant implementing measure in each Relevant Member State and the expression “qualified investor” has the meaning set forth in Article 2(1) of the Prospectus Directive.

Each underwriter has represented and agreed that it has only communicated or caused to be communicated and will only communicate or cause to be communicated an invitation or inducement to engage in investment activity (within the meaning of Section 21 of the Financial Services and Markets Act 2000) in connection with the issue or sale of the common stock in circumstances in which Section 21(1) of such Act does not apply to us

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and it has complied and will comply with all applicable provisions of such Act with respect to anything done by it in relation to any shares of common stock in, from or otherwise involving the United Kingdom.

Pricing of the Offering

Prior to this offering, there has been no public market for our common stock. The initial public offering price will be determined by negotiations between us and the representatives of the underwriters. Among the factors to be considered in determining the initial public offering price will be our future prospects and those of our industry in general; sales, earnings and other financial operating information in recent periods; and the price-earnings ratios, price-sales ratios and market prices of securities and certain financial and operating information of companies engaged in activities similar to ours. The estimated initial public offering price range set forth on the cover page of this preliminary prospectus is subject to change as a result of market conditions and other factors.

A prospectus in electronic format may be made available on the web sites maintained by one or more underwriters. The underwriters may agree to allocate a number of shares to underwriters for sale to their online brokerage account holders. Internet distributions will be allocated by the representatives to underwriters that may make Internet distributions on the same basis as other allocations.

LEGAL MATTERS

The validity of the issuance of the common stock offered by us in this offering will be passed upon for us by Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., Boston, Massachusetts. The underwriters are being represented by Davis Polk & Wardwell, Menlo Park, California.

EXPERTS

Ernst & Young LLP, independent registered public accounting firm, has audited our financial statements at December 31, 2005 and 2006 and for each of the three years in the period ended December 31, 2006, as set forth in their report. We have included our financial statements in the prospectus and elsewhere in the registration statement in reliance on Ernst & Young LLP's report, given on their authority as experts in accounting and auditing.

WHERE YOU CAN FIND ADDITIONAL INFORMATION

We have filed with the SEC a registration statement on Form S-1 under the Securities Act, with respect to the common stock offered by this prospectus. This prospectus, which is part of the registration statement, omits certain information, exhibits, schedules and undertakings set forth in the registration statement. For further information pertaining to us and our common stock, reference is made to the registration statement and the exhibits and schedules to the registration statement. Statements contained in this prospectus as to the contents or provisions of any documents referred to in this prospectus are not necessarily complete, and in each instance where a copy of the document has been filed as an exhibit to the registration statement, reference is made to the exhibit for a more complete description of the matters involved.

You may read and copy all or any portion of the registration statement without charge at the public reference room of the SEC at 100 F Street, N.E., Washington, D.C. 20549. Copies of the registration statement may be obtained from the SEC at prescribed rates from the public reference room of the SEC at such address. You may obtain information regarding the operation of the public reference room by calling 1-800-SEC-0330. In addition, registration statements and certain other filings made with the SEC electronically are publicly available through the SEC's web site at <http://www.sec.gov>. The registration statement, including all exhibits and amendments to the registration statement, has been filed electronically with the SEC.

Upon completion of this offering, we will become subject to the information and periodic reporting requirements of the Exchange Act and, accordingly, will file annual reports containing financial statements audited by an independent public accounting firm, quarterly reports containing unaudited financial data, current reports, proxy statements and other information with the SEC. You will be able to inspect and copy such periodic reports, proxy statements and other information at the SEC's public reference room, and the web site of the SEC referred to above. We will also maintain a web site at <http://www.amedicacorp.com>, at which you may access these materials free of charge as soon as reasonably practicable after they are electronically filed with, or furnished to, the SEC. The information contained in, or that can be accessed through, our web site is not part of this prospectus.

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AMEDICA CORPORATION
(A Development Stage Company)

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

The Board of Directors and Stockholders of
Amedica Corporation

We have audited the accompanying balance sheets of Amedica Corporation (a development stage company) as of December 31, 2005 and 2006, and the related statements of operations, convertible preferred stock and stockholders' equity (deficit) and cash flows for each of the three years in the period ended December 31, 2006. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. We were not engaged to perform an audit of the Company's internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Amedica Corporation (a development stage company) at December 31, 2005 and 2006, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2006, in conformity with U.S. generally accepted accounting principles.

As discussed in Notes 1 and 7 to the financial statements, Amedica Corporation (a development stage company) changed its method of accounting for stock-based compensation in accordance with guidance provided in Statement of Financial Accounting Standard No. 123(R), *Share-Based Payment* during the year ended December 31, 2006.

/s/ Ernst & Young LLP

Salt Lake City, Utah
May 18, 2007

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AMEDICA CORPORATION
(A Development Stage Company)

BALANCE SHEETS

	<u>December 31,</u>		<u>March 31,</u>	<u>Pro Forma</u>
	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>March 31,</u>
			<u>(unaudited)</u>	<u>2007</u>
				<u>(unaudited)</u>
ASSETS				
Current assets:				
Cash and cash equivalents	\$ 1,252,570	\$ 1,689,135	\$ 2,045,322	\$ 2,045,322
Marketable securities	4,927,251	11,780,000	8,280,000	8,280,000
Accrued interest receivable	52,240	49,396	27,604	27,604
Prepaid expenses	18,550	45,846	45,846	45,846
Total current assets	6,250,611	13,564,377	10,398,772	10,398,772
Property and equipment, net	1,370,278	4,057,090	4,534,990	4,534,990
Other assets:				
Deferred offering costs	115,297	1,314,588	1,348,952	1,348,952
Restricted cash	100,000	850,000	850,000	850,000
Deposits	151,508	75,255	75,255	75,255
Total other assets	366,805	2,239,843	2,274,207	2,274,207
Total assets	\$ 7,987,694	\$ 19,861,310	\$ 17,207,969	\$ 17,207,969
LIABILITIES, CONVERTIBLE PREFERRED STOCK AND STOCKHOLDERS' EQUITY (DEFICIT)				
Current liabilities:				
Accounts payable	\$ 207,216	\$ 975,162	\$ 241,825	\$ 241,825
Accrued liabilities	175,623	142,968	91,954	91,954
Deferred rent	12,910	3,063	6,338	6,338
Deferred revenue	—	98,933	98,933	98,933
Current portion of long-term debt	—	376,539	418,616	418,616
Total current liabilities	395,749	1,596,665	857,666	857,666
Deferred rent	2,506	79,922	77,699	77,699
Deferred revenue	98,933	—	—	—
Preferred stock warrant liability	1,404,000	2,623,550	6,304,963	—
Long-term debt	—	1,245,359	1,137,625	1,137,625
Commitments and contingencies				
Convertible preferred stock, \$0.01 par value, 40,000,000 shares authorized; 19,000,058 shares issued and outstanding at December 31, 2005 and 27,400,058 shares issued and outstanding at December 31, 2006 and March 31, 2007 (aggregate liquidation value of \$14,400,035 at December 31, 2005, and \$31,200,035 at December 31, 2006 and March 31, 2007); no shares issued and outstanding pro forma	12,153,095	26,389,982	26,389,982	—
Stockholders' equity (deficit):				
Common stock, \$0.01 par value, 60,000,000 shares authorized; 8,655,595 shares issued and outstanding at December 31, 2005 and 8,678,995 shares issued and outstanding at December 31, 2006 and March 31, 2007, 36,079,053 shares issued and outstanding pro forma	86,556	86,790	86,790	360,791
Additional paid-in capital	316,098	450,634	527,561	32,948,505
Accumulated other comprehensive loss	(21,205)	—	—	—
Deficit accumulated during the development stage	(6,448,038)	(12,611,592)	(18,174,317)	(18,174,317)
Total stockholders' equity (deficit)	(6,066,589)	(12,074,168)	(17,559,966)	15,134,979
Total liabilities, convertible preferred stock and stockholders' equity (deficit)	\$ 7,987,694	\$ 19,861,310	\$ 17,207,969	\$ 17,207,969

The accompanying notes are an integral part of these financial statements.

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AMEDICA CORPORATION
(A Development Stage Company)

STATEMENTS OF OPERATIONS

	<u>For the years ended</u> <u>December 31,</u>			<u>Three months ended</u> <u>March 31,</u>		<u>For the period</u> <u>from December 10,</u> <u>1996</u> <u>(inception)</u> <u>through</u> <u>March 31, 2007</u>
	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2006</u> <u>(unaudited)</u>	<u>2007</u> <u>(unaudited)</u>	<u>(unaudited)</u>
Grant revenue	\$ 208,252	\$ 69,207	\$ 94,850	\$ —	\$ —	\$ 1,234,476
Operating expenses:						
Research and development	1,419,293	2,966,991	4,974,380	1,100,125	1,479,340	11,802,694
General and administrative	398,208	576,295	1,113,500	184,425	405,380	2,806,322
Sales and marketing	—	416,847	607,538	111,038	125,740	1,150,125
Total operating expenses	<u>1,817,501</u>	<u>3,960,133</u>	<u>6,695,418</u>	<u>1,395,588</u>	<u>2,010,460</u>	<u>15,759,141</u>
Loss from operations	(1,609,249)	(3,890,926)	(6,600,568)	(1,395,588)	(2,010,460)	(14,524,665)
Other income (expense):						
Interest income	107,211	248,838	805,437	150,487	166,870	1,330,365
Interest expense	—	—	(77,498)	—	(37,722)	(176,590)
Change in value of preferred stock warrants	(254,089)	(577,000)	(290,925)	(72,731)	(3,681,413)	(4,803,427)
Total other income (expense)	<u>(146,878)</u>	<u>(328,162)</u>	<u>437,014</u>	<u>77,756</u>	<u>(3,552,265)</u>	<u>(3,649,652)</u>
Net loss	<u>\$ (1,756,127)</u>	<u>\$ (4,219,088)</u>	<u>\$ (6,163,554)</u>	<u>\$ (1,317,832)</u>	<u>\$ (5,562,725)</u>	<u>\$ (18,174,317)</u>
Basic and diluted net loss per share	<u>\$ (0.20)</u>	<u>\$ (0.49)</u>	<u>\$ (0.71)</u>	<u>\$ (0.15)</u>	<u>\$ (0.64)</u>	
Shares used to compute basic and diluted net loss per share	<u>8,585,873</u>	<u>8,612,014</u>	<u>8,661,713</u>	<u>8,655,595</u>	<u>8,678,995</u>	
Pro forma net loss per share (unaudited)			<u>\$ (0.18)</u>		<u>\$ (0.15)</u>	
Shares used to compute pro forma basic and diluted net loss per share (unaudited)			<u>34,795,607</u>		<u>36,079,053</u>	

The accompanying notes are an integral part of these financial statements.

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AMEDICA CORPORATION
(A Development Stage Company)

STATEMENTS OF CONVERTIBLE PREFERRED STOCK AND STOCKHOLDERS' EQUITY (DEFICIT)

	Convertible Preferred Stock		Common Stock			Accumulated Other Comprehensive Income (loss)	Deficit Accumulated During the Development Stage	Total Stockholders' Equity (Deficit)
	Shares	Amount	Shares	Amount	Additional Paid-in Capital			
Issuance of common stock to founders for cash at \$0.000025 per share on December 10, 1996 (inception)	—	\$ —	8,000,000	\$ 80,000	\$ (79,800)	\$ —	\$ —	\$ 200
Net loss	—	—	—	—	—	—	(8,810)	(8,810)
Balance at December 31, 1996	—	—	8,000,000	80,000	(79,800)	—	(8,810)	(8,610)
Net loss	—	—	—	—	—	—	(21,143)	(21,143)
Balance at December 31, 1997	—	—	8,000,000	80,000	(79,800)	—	(29,953)	(29,753)
Net loss	—	—	—	—	—	—	(40,967)	(40,967)
Balance at December 31, 1998	—	—	8,000,000	80,000	(79,800)	—	(70,920)	(70,720)
Net income	—	—	—	—	—	—	8,324	8,324
Balance at December 31, 1999	—	—	8,000,000	80,000	(79,800)	—	(62,596)	(62,396)
Net loss	—	—	—	—	—	—	(87,300)	(87,300)
Balance at December 31, 2000	—	—	8,000,000	80,000	(79,800)	—	(149,896)	(149,696)
Net loss	—	—	—	—	—	—	(105,278)	(105,278)
Balance at December 31, 2001	—	—	8,000,000	80,000	(79,800)	—	(255,174)	(254,974)
Net income	—	—	—	—	—	—	12,779	12,779
Balance at December 31, 2002	—	—	8,000,000	80,000	(79,800)	—	(242,395)	(242,195)
Issuance of common stock in exchange for shareholder note payable and interest at \$0.60 per share in October 2003	—	—	493,785	4,938	291,333	—	—	296,271
Issuance of Series A convertible preferred stock for cash at \$0.60 per share in November 2003 for cash, net of offering costs	10,195,040	5,289,266	—	—	—	—	—	—
Compensation expense related to stock options granted to consultants	—	—	—	—	3,094	—	—	3,094
Net loss	—	—	—	—	—	—	(230,428)	(230,428)
Balance at December 31, 2003	10,195,040	5,289,266	8,493,785	84,938	214,627	—	(472,823)	(173,258)
Issuance of common stock upon exercise of stock options	—	—	95,210	952	22,830	—	—	23,782
Issuance of Series A convertible preferred stock for cash at \$0.60 per share in January 2004, net of offering costs	3,805,018	1,666,405	—	—	—	—	—	—
Issuance of Series B convertible preferred stock for cash at \$1.20 per share in November 2004, net of offering costs	5,000,000	5,197,424	—	—	—	—	—	—
Compensation expense related to stock options granted to consultants	—	—	—	—	18,391	—	—	18,391
Unrealized loss on marketable securities	—	—	—	—	—	(15,525)	—	(15,525)
Net loss	—	—	—	—	—	—	(1,756,127)	(1,756,127)
Comprehensive loss	—	—	—	—	—	—	—	(1,771,652)
Balance at December 31, 2004	19,000,058	\$12,153,095	8,588,995	\$ 85,890	\$ 255,848	\$ (15,525)	\$ (2,228,950)	\$ (1,902,737)

The accompanying notes are an integral part of these financial statements.

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AMEDICA CORPORATION
(A Development Stage Company)

STATEMENTS OF CONVERTIBLE PREFERRED STOCK AND STOCKHOLDERS' EQUITY (DEFICIT)—(Continued)

	Convertible Preferred Stock		Common Stock			Accumulated Other Comprehensive Income (loss)	Deficit Accumulated During the Development Stage	Total Stockholders' Equity (Deficit)
	Shares	Amount	Shares	Amount	Additional Paid-in Capital			
Issuance of common stock upon exercise of stock options	—	\$ —	66,600	\$ 666	\$ 15,984	\$ —	\$ —	\$ 16,650
Compensation expense related to stock options granted to consultants	—	—	—	—	44,266	—	—	44,266
Unrealized loss on marketable securities	—	—	—	—	—	(5,680)	—	(5,680)
Net loss	—	—	—	—	—	—	(4,219,088)	(4,219,088)
Comprehensive loss								(4,224,768)
Balance at December 31, 2005	19,000,058	12,153,095	8,655,595	86,556	316,098	(21,205)	(6,448,038)	(6,066,589)
Issuance of common stock upon exercise of stock options	—	—	23,400	234	3,366	—	—	3,600
Issuance of Series C convertible preferred stock for cash at \$2.00 per share in February 2006, net of offering costs	8,400,000	14,236,887	—	—	—	—	—	—
Compensation expense related to stock options granted to employees and consultants	—	—	—	—	131,170	—	—	131,170
Decrease in unrealized loss on marketable securities	—	—	—	—	—	21,205	—	21,205
Net loss	—	—	—	—	—	—	(6,163,554)	(6,163,554)
Comprehensive loss								(6,142,349)
Balance at December 31, 2006	27,400,058	\$26,389,982	8,678,995	86,790	450,634	—	(12,611,592)	(12,074,168)
Compensation expense related to stock options granted to employees and consultants (unaudited)	—	—	—	—	76,927	—	—	76,927
Net loss (unaudited)	—	—	—	—	—	—	(5,562,725)	(5,562,725)
Comprehensive loss (unaudited)								(5,562,725)
Balance at March 31, 2007 (unaudited)	27,400,058	\$26,389,982	8,678,995	\$ 86,790	\$ 527,561	\$ —	\$ (18,174,317)	\$ (17,559,966)

The accompanying notes are an integral part of these financial statements.

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AMEDICA CORPORATION
(A Development Stage Company)
STATEMENTS OF CASH FLOWS

	For the years ended December 31,			Three Months Ended March 31,		For the period from December 10, 1996
	2004	2005	2006	2006	2007	(inception) to March 31, 2007
				(unaudited)		(unaudited)
Cash Flows from Operating Activities:						
Net loss	\$(1,756,127)	\$(4,219,088)	\$ (6,163,554)	\$ (1,317,832)	\$(5,562,725)	\$ (18,174,317)
Adjustments to reconcile net loss to net cash used in operating activities:						
Depreciation and amortization	32,487	164,374	546,100	49,513	237,551	985,135
Loss on impairment of assets	—	—	—	—	—	20,935
Amortization of premiums on marketable securities	29,962	75,075	18,212	10,464	—	123,249
Interest on shareholder loan	—	—	—	—	—	61,370
Stock based compensation	18,391	44,266	131,170	25,474	76,927	273,848
Revaluation of preferred stock warrant liability	254,089	577,000	290,925	72,731	3,681,413	4,803,427
Changes in operating assets and liabilities:						
Interest receivable	(61,359)	9,119	2,844	10,575	21,792	(27,604)
Prepaid expenses	(42,909)	60,519	(27,296)	90,696	—	(45,846)
Deferred offering costs	—	(115,297)	(1,199,291)	115,297	(34,364)	(1,348,952)
Deposits	(74,000)	(77,508)	76,253	76,252	—	(75,255)
Accounts payable and accrued liabilities	203,514	(3,827)	735,291	111,241	(784,351)	333,779
Deferred rent	18,767	(3,351)	67,569	(5,842)	1,052	84,037
Deferred revenue	96,000	2,933	—	—	—	98,933
Net cash used in operating activities	(1,281,185)	(3,485,785)	(5,521,777)	(761,431)	(2,362,705)	(12,887,261)
Cash Flows from Investing Activities:						
Purchases of property and equipment	(694,556)	(854,088)	(3,232,912)	(1,002,168)	(715,451)	(5,541,060)
Purchases of marketable securities	(8,516,594)	(5,193,165)	(30,097,756)	(15,262,044)	—	(43,807,515)
Increase in restricted cash	(100,000)	—	(750,000)	—	—	(850,000)
Maturities of marketable securities	—	8,656,266	23,248,000	2,200,000	3,500,000	35,404,266
Net cash provided by (used in) investing activities:	(9,311,150)	2,609,013	(10,832,668)	(14,064,212)	2,784,549	(14,794,309)
Cash Flows from Financing Activities:						
Proceeds from shareholder note payable	—	—	—	—	—	234,901
Proceeds from issuance of convertible preferred stock and warrants, net of issuance costs	7,436,740	—	15,165,512	15,165,512	—	27,891,518
Proceeds from issuance of common stock	23,782	16,650	3,600	—	—	44,232
Proceeds from long-term debt	—	—	1,621,898	—	—	1,621,898
Repayments of long-term debt	—	—	—	—	(65,657)	(65,657)
Net cash provided by (used in) financing activities	7,460,522	16,650	16,791,010	15,165,512	(65,657)	29,726,892
Net increase (decrease) in cash and cash equivalents	(3,131,813)	(860,122)	436,565	339,869	356,187	2,045,322
Cash and cash equivalents at beginning of period	5,244,505	2,112,692	1,252,570	1,252,570	1,689,135	—
Cash and cash equivalents at end of period	\$ 2,112,692	\$ 1,252,570	\$ 1,689,135	\$ 1,592,439	\$ 2,045,322	\$ 2,045,322
Noncash financing activities:						
Common stock issued in exchange for shareholder note and accrued interest	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 296,271
Warrants issued in connection with preferred stock offerings	572,911	—	928,625	928,625	—	1,501,536
Supplemental cash flow information						
Cash paid for interest	\$ —	\$ —	\$ 76,574	\$ —	\$ 37,722	\$ 114,296

The accompanying notes are an integral part of these financial statements.

AMEDICA CORPORATION
(A Development Stage Company)

NOTES TO FINANCIAL STATEMENTS

(Information as of March 31, 2007, for the three months ended March 31, 2006 and 2007, and for the period from December 10, 1996 (inception) to March 31, 2007 is unaudited)

1. Organization and Summary of Significant Accounting Policies

Amedica Corporation (“Amedica” or the “Company”), incorporated in the state of Delaware on December 10, 1996, is a development stage orthopedic implants company focusing on using silicon nitride ceramic technologies to develop, manufacture and commercialize a broad range of advanced, high-performance spine and joint implants.

The Company is considered a development stage company as planned principal operations have not yet commenced and the revenue generated from research grants did not constitute significant and sustained revenue. Since inception, the Company has devoted substantially all of its resources to start-up activities, raising capital, research and development, and build-out of its ceramics manufacturing facility.

Unaudited Interim Financial Information

The accompanying balance sheet as of March 31, 2007, and the related statements of operations and cash flows for the three month periods ended March 31, 2006 and 2007 and for the period from December 10, 1996 (inception) to March 31, 2007 and the statement of convertible preferred stock and stockholders’ equity (deficit) for the three months ended March 31, 2007 and related information contained in the notes to financial statements are unaudited. These unaudited financial statements and notes have been prepared in accordance with U.S. generally accepted accounting principles. In the opinion of the Company’s management, the unaudited financial statements have been prepared on the same basis as the audited financial statements and include all adjustments, consisting of only normal recurring adjustments, necessary for the fair presentation of the Company’s financial position, results of operations and cash flows for the three months ended March 31, 2006 and 2007 and for the period from December 10, 1996 (inception) to March 31, 2007. The results for the three months ended March 31, 2007 are not necessarily indicative of the results of operations to be expected for the year ending December 31, 2007 or for any other interim period or future year.

Unaudited Pro Forma Balance Sheet

In May 2007, the board of directors authorized management of the Company to file a registration statement with the Securities and Exchange Commission permitting the Company to sell shares of its common stock to the public. The unaudited pro forma balance sheet as of March 31, 2007 and pro forma basic and diluted net loss per share reflect the automatic conversion of all of the Series A, Series B and Series C convertible preferred stock outstanding at the time of the offering into 27,400,058 shares of common stock upon the closing of the Company’s initial public offering. The unaudited pro forma balance sheet, as adjusted for the assumed conversion of the preferred stock and the conversion of 3,803,750 preferred stock warrants into common stock warrants and the related reclassification of the preferred stock warrant liability to additional paid in capital, is set forth in the accompanying pro forma balance sheet as of March 31, 2007.

Use of Estimates

The preparation of financial statements in conformity with U.S. generally accepted accounting principles requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. Actual results could differ from those estimates.

AMEDICA CORPORATION
(A Development Stage Company)

NOTES TO FINANCIAL STATEMENTS—(Continued)
(Information as of March 31, 2007, for the three months ended March 31, 2006 and 2007, and for the period from December 10, 1996 (inception) to March 31, 2007 is unaudited)

Fair Value of Financial Instruments

Financial instruments, including cash and cash equivalents, marketable securities, and restricted cash are carried at fair value. Other financial instruments, including other current assets, accounts payable and accrued liabilities are carried at cost, which management believes approximates fair value given their short-term nature.

Concentration of Credit Risk

Financial instruments, which potentially subject the Company to concentrations of credit risk, consist primarily of cash, cash equivalents, marketable securities and restricted cash. The Company limits its exposure to credit loss by placing its cash with high credit-quality financial institutions. The Company has established guidelines relative to diversification of its cash and investment securities and their maturities that are intended to secure safety and liquidity. These guidelines are periodically reviewed and modified to take advantage of trends in yields and interest rates and changes in the Company's operations and financial position.

Cash, Cash Equivalents and Marketable Securities

The Company invests its available cash balances in bank deposits, money market funds, U.S. government securities and other investment grade debt securities that have strong credit ratings. The Company considers all highly liquid investments with an original maturity of three months or less at the time of purchase to be cash equivalents.

The Company accounts for its investments in marketable securities in accordance with Statement of Financial Accounting Standards ("SFAS") No. 115, *Accounting for Certain Investments in Debt and Equity Securities*. Management determines the appropriate classification of securities at the time of purchase. To date, all marketable securities have been classified as available-for-sale, and are carried at fair value as determined based on quoted market prices with unrealized gains and losses reported as a component of accumulated other comprehensive income (loss) as a component of stockholders' equity (deficit). The Company views its available-for-sale portfolio as available for use in current operations. Accordingly, the Company has classified all investments as short term.

The amortized cost of debt securities is adjusted for amortization of premiums and accretion of discounts to maturity. Such amortization is included in interest income. Realized gains and losses and declines in value judged to be other-than-temporary on available-for-sale securities, if any, are included in interest income and expense and have not been material. Realized gains and losses are computed on a specific identification basis. Interest and dividends are included in interest income.

Property and Equipment

Property and equipment, including leasehold improvements, are stated at cost, less accumulated depreciation and amortization. Property and equipment is depreciated using the straight-line method over the estimated useful lives of the assets, which range from three to five years. Leasehold improvements are amortized over the shorter of their estimated useful lives or the related lease term, generally five years. Deposits on equipment consist of amounts paid to vendors as down-payments on certain specialty manufacturing equipment and are not depreciated until the equipment is placed into service.

AMEDICA CORPORATION
(A Development Stage Company)

NOTES TO FINANCIAL STATEMENTS—(Continued)
(Information as of March 31, 2007, for the three months ended March 31, 2006 and 2007, and for the period from December 10, 1996 (inception) to March 31, 2007 is unaudited)

Impairment of Long-Lived Assets

SFAS No. 144, *Accounting for the Impairment or Disposal of Long-Lived Assets*, requires losses from impairment of long-lived assets used in operations to be recorded when indicators of impairment are present and the undiscounted cash flows estimated to be generated by those assets are less than the assets' carrying amount. The Company periodically evaluates the carrying value of long-lived assets to be held and used when events and circumstances indicate that the carrying amount of an asset may not be recovered.

Deferred Rent

Lease incentives, including rent holidays and rent escalation provisions, are accrued as deferred rent. The Company recognizes rent expense on a straight-line basis over the term of the lease.

Revenue Recognition

Revenue consists primarily of amounts earned under research grants with the National Institutes of Health (NIH). The Company's federal government research grants provide for the reimbursement of qualified expenses for research and development as defined under the terms of each grant. Revenue under grants is recognized when earned, and revenue is considered earned as the related qualified research and development expenses are incurred, up to the limit of the approved funding amounts. Because the Company acts as a principal, not as an agent, in research studies performed for NIH, amounts earned are recorded as revenue. Deferred revenue at December 31, 2006 and March 31, 2007 relates to future services to be performed under a contract with the NIH.

Research and Development

All research and development costs, including those funded by third parties, are expensed as incurred. Research and development costs consist of engineering, product development, test-part manufacturing, testing, developing and validating the manufacturing process, and regulatory related costs. Research and development expenses also include employee compensation, employee and non-employee stock-based compensation, supplies and materials, consultant services, and travel and facilities expenses related to research activities.

Income Taxes

The Company utilizes the liability method of accounting for income taxes as required by SFAS No. 109, *Accounting for Income Taxes*. Under this method, deferred tax assets and liabilities are determined based on differences between financial reporting and tax reporting bases of assets and liabilities and are measured using enacted tax rates and laws that are expected to be in effect when the differences are expected to reverse. Valuation allowances are established when necessary to reduce deferred tax assets to the amounts expected to be realized. Currently, there is no provision for income taxes as the Company has incurred operating losses to date.

Comprehensive Income (Loss)

SFAS No. 130, *Reporting Comprehensive Income*, requires components of other comprehensive income, including unrealized gains and losses on available-for-sale investments, to be included as part of accumulated other comprehensive income (loss). The Company displays comprehensive loss and its components as part of the statement of convertible preferred stock and stockholders' equity (deficit). Comprehensive loss consists of net loss and unrealized gains and losses on available-for-sale investments.

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AMEDICA CORPORATION
(A Development Stage Company)

NOTES TO FINANCIAL STATEMENTS—(Continued)

(Information as of March 31, 2007, for the three months ended March 31, 2006 and 2007, and for the period from December 10, 1996 (inception) to March 31, 2007 is unaudited)

Loss per Common Share

The computation of basic and diluted net loss per common share is based on the weighted average number of shares outstanding as follows:

	<u>Years Ended December 31,</u>			<u>Three months ended</u>	
	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>March 31,</u>	<u>2007</u>
				(unaudited)	
Historical:					
Net loss (numerator)	\$ (1,756,127)	\$ (4,219,088)	\$ (6,163,554)	\$ (1,317,832)	\$ (5,562,725)
Weighted average number of shares outstanding (denominator)	<u>8,585,873</u>	<u>8,612,014</u>	<u>8,661,713</u>	<u>8,655,595</u>	<u>8,678,995</u>
Basic and diluted loss per common share	<u>\$ (0.20)</u>	<u>\$ (0.49)</u>	<u>\$ (0.71)</u>	<u>\$ (0.15)</u>	<u>\$ (0.64)</u>
Pro forma:					
Weighted average number of shares outstanding (above)			8,661,713		8,678,995
Pro forma adjustments to reflect assumed weighted-average effect of conversion of preferred stock (unaudited)			<u>26,133,894</u>		<u>27,400,058</u>
Shares used to compute pro forma basic and diluted net loss per share (unaudited)			<u>34,795,607</u>		<u>36,079,053</u>
Pro forma basic and diluted net loss per share (unaudited)			<u>\$ (0.18)</u>		<u>\$ (0.15)</u>
Securities excluded from net loss calculations as their impact would be antidilutive:					
Convertible preferred stock	19,000,058	19,000,058	27,400,058	27,400,058	27,400,058
Stock options	2,774,540	3,057,190	3,658,627	3,258,390	3,457,627
Preferred stock warrants	<u>2,600,000</u>	<u>2,600,000</u>	<u>3,803,750</u>	<u>3,803,750</u>	<u>3,803,750</u>
Total	<u>24,374,598</u>	<u>24,657,248</u>	<u>34,862,435</u>	<u>34,462,198</u>	<u>34,661,435</u>

Stock-Based Compensation

Prior to January 1, 2006, the Company accounted for stock-based employee compensation arrangements using the intrinsic value method in accordance with the recognition and measurement provisions of Accounting Principles Board Opinion (“APB”) No. 25, *Accounting for Stock Issued to Employees*, and related interpretations, including the Financial Accounting Standards Board Interpretation (“FIN”) No. 44, *Accounting for Certain Transactions Involving Stock Compensation, an Interpretation of APB Opinion No. 25* as permitted by SFAS No. 123, *Accounting for Stock-Based Compensation*. In accordance with APB No. 25, stock-based compensation is calculated using the intrinsic value method and represents the difference between the estimated fair value of our common stock and the per share exercise price of the stock option. Based on this method of accounting, our compensation expense under APB No. 25 was zero.

Effective January 1, 2006, the Company adopted the provisions of SFAS No. 123R, *Share-Based Payments*. In March 2005, the Securities and Exchange Commission issued Staff Accounting Bulletin (“SAB”) No. 107

AMEDICA CORPORATION
(A Development Stage Company)

NOTES TO FINANCIAL STATEMENTS—(Continued)

(Information as of March 31, 2007, for the three months ended March 31, 2007 and 2006, and for the period from December 10, 1996 (inception) to March 31, 2007 is unaudited)

relating to SFAS No. 123R. The Company has applied the provisions of SAB No. 107 in its adoption of SFAS No. 123R. Under SFAS No. 123R, stock-based awards, including stock options, are recorded at fair value as of the grant date and recognized to expense over the employee's requisite service period (generally the vesting period) which the Company has elected to amortize on a straight-line basis. Because non-cash stock compensation expense is based on awards ultimately expected to vest, the Company reduces stock compensation expense for estimated forfeitures. For the year ended December 31, 2006 and the three months ended March 31, 2007, the Company's estimate of forfeitures is zero. The pro forma disclosures previously permitted under SFAS No. 123 are no longer an alternative to financial statement recognition and the Company no longer applies the minimum value method and instead calculates the fair value of its employee stock options using an estimated volatility rate. The Company adopted the provisions of SFAS No. 123R using the prospective transition method. Under the prospective transition method, beginning January 1, 2006, compensation cost recognized includes: (a) compensation cost for all share-based payments granted prior to, but not yet vested as of December 31, 2005, based on the intrinsic value in accordance with the provisions of APB No. 25, and (b) compensation cost for all share-based payments granted subsequent to December 31, 2005, based on the grant-date fair value estimated in accordance with the provisions of SFAS No. 123R. All awards granted, modified, or settled after the date of adoption are accounted for using the measurement, recognition, and attribution provisions of SFAS No. 123R.

As a result of adopting SFAS No. 123R on January 1, 2006, the net loss for the year ended December 31, 2006 and three months ended March 31, 2006 and 2007 was higher by approximately \$38,857, \$5,109 and \$27,525, respectively, than if the Company had continued to account for stock-based compensation under APB No. 25. As of December 31, 2006 and March 31, 2007, total compensation related to nonvested options not yet recognized in the financial statements was approximately \$377,000 and \$351,000, respectively, and the weighted average period over which it is expected to be recognized is approximately 3.66 and 3.45 years, respectively. The Company recorded no tax benefit related to these options during the year ended December 31, 2006 or the three months ended March 31, 2006 and 2007, since the Company currently maintains a full valuation allowance offsetting its deferred tax assets.

The Company accounts for equity instruments issued to nonemployees in accordance with the provisions of Emerging Issues Task Force ("EITF") No. 96-18, *Accounting for Equity Instruments That Are Issued to Other Than Employees for Acquiring, or in Conjunction with Selling, Goods or Services*, using a fair-value approach. The equity instruments, consisting of stock options and warrants granted to consultants, are valued using the Black-Scholes valuation model. The measurement of stock-based compensation is subject to periodic adjustments as the underlying equity instruments vest and are recognized as an expense over the period in which services are received.

AMEDICA CORPORATION
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NOTES TO FINANCIAL STATEMENTS—(Continued)

(Information as of March 31, 2007, for the three months ended March 31, 2006 and 2007, and for the period from December 10, 1996 (inception) to March 31, 2007 is unaudited)

2. Marketable Securities

The Company invests in highly liquid investment grade securities. The following is a summary of the Company's marketable securities at December 31, 2005, 2006 and March 31, 2007 (unaudited):

	<u>December 31, 2005</u>			
	<u>Amortized Cost</u>	<u>Gross Unrealized Gains</u>	<u>Gross Unrealized Losses</u>	<u>Fair Market Value</u>
Corporate bonds	\$ 1,440,635	\$ —	\$ (7,149)	\$ 1,433,486
Euro dollar bonds	1,204,311	—	(2,535)	1,201,776
Taxable auction securities	800,000	—	—	800,000
Federal agency issue	1,500,000	—	(11,521)	1,488,479
Other	3,510	—	—	3,510
Total	<u>\$ 4,948,456</u>	<u>\$ —</u>	<u>\$(21,205)</u>	<u>\$ 4,927,251</u>

	<u>December 31, 2006</u>			
	<u>Amortized Cost</u>	<u>Gross Unrealized Gains</u>	<u>Gross Unrealized Losses</u>	<u>Fair Market Value</u>
Taxable auction securities	<u>\$11,780,000</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$11,780,000</u>

	<u>March 31, 2007</u>			
	<u>Amortized Cost</u>	<u>Gross Unrealized Gains</u>	<u>Gross Unrealized Losses</u>	<u>Fair Market Value</u>
Taxable auction securities	<u>\$ 8,280,000</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 8,280,000</u>

The estimated fair market value amounts have been determined by the Company using available market information. Unrealized gains and losses on marketable securities were reported as a component of accumulated other comprehensive income (loss) in stockholders' equity (deficit).

As of December 31, 2005 and 2006 and March 31, 2007, the contractual maturities of marketable securities were less than one year.

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AMEDICA CORPORATION
(A Development Stage Company)

NOTES TO FINANCIAL STATEMENTS—(Continued)

(Information as of March 31, 2007, for the three months ended March 31, 2006 and 2007, and for the period from December 10, 1996 (inception) to March 31, 2007 is unaudited)

3. Property and Equipment

Property and equipment consists of the following:

	December 31,		March 31,
	2005	2006	2007 (unaudited)
Manufacturing and lab equipment	\$1,395,251	\$2,893,427	\$3,596,766
Deposits on equipment	85,952	1,003,808	973,403
Software	21,574	186,360	190,030
Leasehold improvements	26,161	566,635	600,489
Furniture and equipment	42,026	152,864	157,857
	1,570,964	4,803,094	5,518,545
Less accumulated depreciation and amortization	(200,686)	(746,004)	(983,555)
	<u>\$1,370,278</u>	<u>\$4,057,090</u>	<u>\$4,534,990</u>

4. Deferred Offering Costs

The deferred offering costs as of December 31, 2005 were offset against the proceeds received on the sale of the Series C convertible preferred stock which occurred in February 2006. The deferred offering costs included as of December 31, 2006 will be offset against the proceeds from an anticipated initial public offering of the Company's common stock. Deferred offering costs as of March 31, 2007 also included costs related to the sale of Series D convertible preferred stock which occurred in April, 2007.

5. Accrued Liabilities

Accrued liabilities consist of the following:

	December 31,		March 31,
	2005	2006	2007 (unaudited)
Accrued compensation	\$ 88,623	\$106,044	\$ 55,954
Accrued professional fees	62,000	36,000	36,000
Other	25,000	924	—
	<u>\$175,623</u>	<u>\$142,968</u>	<u>\$ 91,954</u>

6. Long Term Debt

In May 2006, the Company entered into an equipment financing arrangement which allowed for advances to the Company for equipment purchased during 2006. These amounts are collateralized by certain of the Company's qualifying manufacturing and lab equipment and \$750,000 which is invested in an interest bearing escrow account and is reflected on the accompanying balance sheet as restricted cash. In the event the balance of the Company's cash and marketable securities becomes equal to or less than the then remaining balance of the loan at any time during the lease term, the bank has the right to exercise a contingent pledge with respect to all remaining cash and marketable securities.

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AMEDICA CORPORATION
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NOTES TO FINANCIAL STATEMENTS—(Continued)
(Information as of March 31, 2007, for the three months ended March 31, 2006 and 2007, and for the period from December 10, 1996 (inception) to March 31, 2007 is unaudited)

As of December 31, 2006, \$1,621,898 had been advanced under this arrangement. In January 2007, this amount was refinanced into long-term debt with a fixed interest rate of 9.09% and with a 42-month term. The debt has been classified on the accompanying financial statements in accordance with this term loan.

Payments due for long-term debt as of March 31, 2007 are as follows:

<u>Year ended December 31,</u>	<u>Long-term Debt</u>
2007 (remainder of year)	\$ 310,381
2008	448,035
2009	490,502
2010	307,323
	<u>\$1,556,241</u>

7. Convertible Preferred Stock and Stockholders' Equity (Deficit)

Common Stock

As of December 31, 2005 and 2006 and March 31, 2007, the Company was authorized to issue 60,000,000 shares of common stock. As of December 31, 2005, the Company had 8,655,595 shares outstanding and as of December 31, 2006 and March 31, 2007 the Company had 8,678,995 shares outstanding.

The Company had reserved shares of common stock for future issuances as follows:

	<u>December 31,</u>		<u>March 31,</u>
	<u>2005</u>	<u>2006</u>	<u>2007</u>
			<u>(unaudited)</u>
Convertible preferred stock			
Shares outstanding	19,000,058	27,400,058	27,400,058
Shares authorized, but unissued	20,999,942	12,599,942	12,599,942
Warrants			
Series A convertible preferred stock	2,100,000	2,100,000	2,100,000
Series B convertible preferred stock	500,000	500,000	500,000
Series C convertible preferred stock	—	1,203,750	1,203,750
2003 Stock Plan			
Options outstanding	3,057,190	3,658,627	3,457,627
Shares available for grant	781,000	156,163	857,163
	<u>46,438,190</u>	<u>47,618,540</u>	<u>48,118,540</u>

Convertible Preferred Stock

At December 31, 2005, 2006 and March 31, 2007, the Company was authorized to issue 40,000,000 shares of convertible preferred stock. In November 2003 and January 2004, the Company sold a total of 14,000,058 shares of Series A convertible preferred stock for gross proceeds of \$8,400,000 and net proceeds of \$7,368,751. In November 2004, the Company sold 5,000,000 shares of Series B convertible preferred stock for gross

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AMEDICA CORPORATION
(A Development Stage Company)

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proceeds of \$6,000,000 and net proceeds of \$5,357,255. In February 2006, the Company sold 8,400,000 shares of Series C convertible preferred stock for gross proceeds of \$16,800,000 and net proceeds of \$15,165,512. In addition to receiving fees and convertible preferred stock warrants discussed below, the placement agent has the right to receive through February 2009, up to \$2.5 million in the event of a future acquisition of the Company prior to an initial public offering, resulting in a change in control, as defined in the agreement.

At December 31, 2005, convertible preferred stock consisted of the following:

<u>Series</u>	<u>Designated Shares</u>	<u>Shares Issued and Outstanding</u>	<u>Aggregate Liquidation Preference</u>
Series A	16,150,000	14,000,058	\$ 8,400,035
Series B	6,000,000	5,000,000	6,000,000
Total	22,150,000	19,000,058	\$14,400,035

At December 31, 2006 and March 31, 2007, convertible preferred stock consisted of the following:

<u>Series</u>	<u>Designated Shares</u>	<u>Shares Issued and Outstanding</u>	<u>Aggregate Liquidation Preference</u>
Series A	16,150,000	14,000,058	\$ 8,400,035
Series B	6,000,000	5,000,000	6,000,000
Series C	9,700,000	8,400,000	16,800,000
Total	31,850,000	27,400,058	\$31,200,035

In April 2007, the Company issued 4,456,500 shares of Series D convertible preferred stock at \$3.00 per share for net proceeds of approximately \$12,400,000. Dividends, liquidation preferences, conversion and voting rights of Series D convertible preferred stock are consistent with those of Series A, B and C convertible preferred stock. In conjunction with this offering, the placement agent received warrants to purchase 253,290 shares of Series D convertible preferred stock which were granted at an exercise price of \$3.30 per share, and are fully exercisable at the earlier of one year from issuance or the completion of an initial public offering of the Company's common stock, expire after seven years and have an estimated fair value of \$450,000. In connection with the Series D convertible preferred stock offering, the Company paid the placement agent \$758,870 as commission and \$100,000 for expenses.

The rights and preferences of the convertible preferred stock are as follows:

Dividends

The convertible preferred stock shall be entitled to receive noncumulative dividends in preference to any dividend on common stock payable only if declared by the Board of Directors. As of December 31, 2005 and 2006 and March 31, 2007, the Board of Directors had not declared any dividends.

Liquidation Preference

In the event of any liquidation or winding up of the Company, including in the event of the merger, consolidation and sale of the Company, the holders of preferred stock shall be entitled to receive, in preference to

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the holders of the common stock, a per share amount equal to the original purchase price for such shares, subject to appropriate adjustment, plus all declared but unpaid dividends. After the payment of the liquidation preference to the holders of the preferred stock, the remaining assets shall be distributed ratably to the holders of the common stock.

A sale, merger, reorganization, liquidation, dissolution or winding up of the Company may, in certain circumstances, be deemed to be a liquidation and trigger the liquidation preferences associated with the outstanding shares of convertible preferred stock. Because a change in control could occur and not be solely within the control of the Company, all convertible preferred stock has been deemed to be redeemable and classified outside of permanent equity in the accompanying consolidated balance sheets, as required by EITF Topic D-98, *Classification and Measurement of Redeemable Securities*. However, because the timing of any such redemption is uncertain, the Company will not accrete the carrying value of the convertible preferred stock to its liquidation preference value until it becomes probable that redemption will occur.

Conversion

The holders of the convertible preferred stock shall have the right to convert the shares of preferred stock held by such holders, at any time, into shares of common stock. The initial conversion rate shall be 1:1, subject to appropriate adjustments for stock splits, stock dividends, recapitalizations, etc. Upon conversion, any declared but unpaid dividends on the preferred stock will be paid in additional shares of common stock.

The convertible preferred stock shall be automatically converted into common stock, at the then applicable conversion ratio, upon the closing of a public offering of shares of common stock at a per share price not less than the then applicable conversion price (as adjusted for stock splits, stock dividends, recapitalizations, etc.).

Voting Rights

The preferred stock will vote together with the common stock, and not as separate classes, except as specifically provided below or as otherwise required by law. Each share of preferred stock shall have a number of votes equal to the number of shares of common stock.

Unless an affirmative vote of 50 percent of the combined outstanding shares of preferred stock, voting separately as a class, is obtained, the Company shall not undertake any of the following: (i) declaration or payment of any dividend or other distribution or payment on the (or the redemption, purchase or other acquisition for value of any) capital stock of the Company or any subsidiary; (ii) any liquidation, dissolution, recapitalization or reorganization of the Company; (iii) transfer or disposition of assets or rights with a value of more than \$1,000,000; and/or (iv) any amendment to the Company's certificate of incorporation that changes or alters any of the preferences, voting powers or other rights and privileges of preferred stock.

Registration Rights

The preferred shareholders and warrant holders were granted registration rights that provide these holders the right to request, 180 days after the completion of a qualifying initial public offering, that the Company file a registration statement to register under the Securities Act the common stock that would be issued upon conversion of the preferred shares or exercise of the warrants. Thereupon the Company is obligated to use commercially reasonable efforts to file a timely registration statement. These registration rights are subject to

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certain conditions and limitations, including our right, based on advise of the lead managing underwriter of a future offering, to limit the number of shares included in any such registration under certain circumstances.

Preferred Stock Warrant Liability

In connection with the convertible preferred stock offerings referred to above, the placement agent received warrants to purchase convertible preferred stock. These warrants are fully exercisable after one year from issuance and expire after seven years. The exercise price of these warrants is equal to 110% of the offering price of the underlying convertible preferred stock. On the closing of an initial public offering, these warrants will convert into warrants to purchase shares of common stock at the then applicable conversion rate for the related preferred stock (currently 1:1). The grant dates, number of warrants, exercise price and estimated fair value of the warrants are as noted below.

Series of convertible preferred stock underlying warrants	Grant Date	Number of Shares	Exercise Price	Estimated Fair Value		
				December 31,		March 31,
				2005	2006	2007
Series A	1/30/2004	2,100,000	\$ 0.66	\$ 1,134,000	\$ 1,470,000	\$ 3,591,000
Series B	11/01/2004	500,000	1.32	270,000	335,000	800,000
Series C	2/24/2006	1,203,750	2.20	—	818,550	1,913,963
		<u>3,803,750</u>		<u>\$ 1,404,000</u>	<u>\$ 2,623,550</u>	<u>\$ 6,304,963</u>

The Company has accounted for these warrants under the provisions of Financial Accounting Standards Board Staff Position (“FSP”) No. 150-5, *Issuer’s Accounting under Statement No. 150 for Freestanding Warrants and Other Similar Instruments on Shares that Are Redeemable*, an interpretation of SFAS No. 150, *Accounting for Certain Financial Instruments with Characteristics of Both Liabilities and Equity*. Pursuant to FSP No. 150-5, freestanding warrants for shares that are either puttable or warrants for shares that are redeemable are classified as liabilities on the balance sheet at fair value. In connection with the grant of the warrants to purchase Series A and Series B convertible preferred stock in 2004 and Series C convertible preferred stock in 2006, the Company recorded the initial fair values of the warrants of \$413,080, \$159,831 and \$928,625, respectively, as a preferred stock warrant liability. At the end of each reporting period, changes in fair value during the period are recorded as a component of other income or expense.

The fair value of the above warrants was determined using the Black-Scholes valuation model using the following assumptions:

	Year ended December 31,			Three months ended March 31,	
	2004	2005	2006	2006	2007
Weighted-average risk-free interest rate	3.85%	4.36%	4.70%	4.70%	4.55%
Weighted-average expected life (in years)	6.24	5.24	4.85	4.85	4.60
Expected dividend yield	0%	0%	0%	0%	0%
Weighted-average expected volatility	108%	94%	75%	75%	70%

For the years ended December 31, 2004, 2005 and 2006, and for the three month period ended March 31, 2006 and 2007, the Company recorded \$254,089, \$577,000, \$290,925, \$72,731 and \$3,681,413, respectively, as

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other expense for the increase in fair value of all preferred stock warrants. The Company will continue to adjust the liabilities for changes in fair value until the earlier of the exercise of the warrants to purchase shares of convertible preferred stock or the completion of a liquidation event, including the completion of an initial public offering, at which time the liabilities will be reclassified to stockholders' equity (deficit) when the warrants are converted to common stock warrants.

Stock Option Plan

Under the Company's 2003 Stock Option Plan, the Company's Board of Directors has authorized the grant of options to employees and nonemployees for the issuance of up to 4,000,000 shares of the Company's common stock. In March 2007, the Board of Directors reserved an additional 500,000 shares to be issued under the 2003 Stock Option Plan. All options granted have a term of ten years from the date of the grant and generally become fully exercisable within four years of continued employment or service at a rate defined in each option agreement.

A summary of the Company's stock option activity and related information is as follows:

	Options Outstanding		
	Shares Available for Grant	Number of Options	Weighted Average Exercise Price
Balance at inception (December 10, 1996)	—	—	\$ —
Shares authorized	4,000,000	—	—
Options granted	(2,160,000)	2,160,000	0.12
Balance at December 31, 2003	1,840,000	2,160,000	0.12
Granted	(777,250)	777,250	0.37
Exercised	—	(95,210)	0.25
Cancelled	67,500	(67,500)	0.16
Balance at December 31, 2004	1,130,250	2,774,540	0.19
Granted	(370,500)	370,500	0.69
Exercised	—	(66,600)	0.25
Cancelled	21,250	(21,250)	0.27
Balance at December 31, 2005	781,000	3,057,190	0.25
Granted	(750,400)	750,400	1.00
Exercised	—	(23,400)	0.15
Cancelled	125,563	(125,563)	0.49
Balance at December 31, 2006	156,163	3,658,627	0.39
Granted (unaudited)	(65,000)	65,000	1.00
Cancelled (unaudited)	266,000	(266,000)	0.50
Increase in authorized shares	500,000	—	—
Balance at March 31, 2007 (unaudited)	857,163	3,457,627	\$ 0.40

There were options to purchase 1,758,128, 2,390,503 and 2,466,572 shares of common stock that were exercisable at December 31, 2005, 2006 and March 31, 2007 respectively, at a weighted-average exercise price of \$0.14, \$0.18 and \$0.22, respectively.

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Information about outstanding stock options is as follows:

Exercise Price Per Share	December 31, 2006			March 31, 2007 (unaudited)		
	Options Outstanding	Weighted Average Remaining Contractual Life (in years)	Options Exercisable	Options Outstanding	Weighted Average Remaining Contractual Life (in years)	Options Exercisable
\$0.10	955,000	6.72	930,745	955,000	6.47	934,525
\$0.11	800,000	6.72	800,000	800,000	6.47	800,000
\$0.25	597,290	7.21	421,978	472,290	6.91	388,696
\$0.60	488,937	8.19	220,406	388,937	7.96	199,078
\$1.00	817,400	9.64	17,374	841,400	9.44	144,273
\$0.10-\$1.00	<u>3,658,627</u>	7.65	<u>2,390,503</u>	<u>3,457,627</u>	7.42	<u>2,466,572</u>

The weighted-average grant date fair value of the options granted during the years ended December 31, 2004, 2005 and 2006 was \$0.08, \$0.16 and \$0.78 per share, respectively. The weighted-average grant date fair value of the options granted during the three months ended March 31, 2006 and 2007, was \$0.82 and \$0.73, respectively.

Stock Options under SFAS 123R

On January 1, 2006, the Company adopted the provisions of SFAS No. 123R, *Share-Based Payment*. SFAS No. 123R establishes accounting for stock-based awards made to employees and directors. Accordingly, stock-based compensation expense is measured at grant date, based on the fair value of the award, and is recognized as expense over the remaining requisite service period. Total employee stock-based compensation of \$38,857, \$5,109 and \$27,525, respectively was recorded during the year ended December 31, 2006 and three months ended March 31, 2006 and 2007.

During 2006 and the three months ended March 31, 2007, the Company issued options to employees and directors with exercise prices that, at the time of grant, the board of directors determined to approximate the fair value of the Company's common stock, taking into consideration a number of factors including the issuance price of shares of the Company's convertible preferred shares, the preferential terms and conditions of the convertible preferred stock, the status of scientific research and development efforts and associated milestones and the likelihood of achieving a liquidity event for the share of the Company's common stock. The board of directors has reassessed the fair value of these grants given the anticipation of completing an initial public offering and the timing of key events that occurred during 2006 and the three months ended March 31, 2007. Reassessed value was determined using valuations performed by an independent valuation consultant (as discussed below) that used a combination of income and market valuation approaches. For dates not coinciding with the valuations, reassessed value was determined by evaluating the impact of milestones achieved during those periods and general progress in the business, as well as the proximity of the grant date to the date of the corresponding valuation.

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Information on employee and director options granted in 2006 and the first three months of 2007 is as follows:

<u>Grant Date</u>	<u>Number of Shares Granted</u>	<u>Exercise Price per Share</u>	<u>Reassessed Fair Value Per Share</u>	<u>Intrinsic Value</u>
2/12/2006	193,200	\$ 1.00	\$ 1.00	\$ —
12/11/2006	372,200	1.00	1.00	—
1/5/2007	65,000	1.00	1.06	0.06

The fair value of the underlying common stock for these options was assessed by the Company based on retrospective valuations performed by LECG, LLC, or LECG, an independent valuation consultant, as of December 31, 2005 and December 31, 2006 and a contemporaneous valuation performed by LECG on October 31, 2006.

The fair value of each employee option grant in the year ended December 31, 2006 and the three months ended March 31, 2006 and 2007 was estimated on the date of grant using the Black-Scholes valuation model with the following assumptions.

	<u>Year ended December 31, 2006</u>	<u>Three months ended March 31, (unaudited)</u>	
		<u>2006</u>	<u>2007</u>
Weighted average risk-free interest rate	4.53%	4.58%	4.67%
Weighted-average expected life (in years)	6.25	6.25	5
Expected dividend yield	0%	0%	0%
Weighted average expected volatility	91%	101%	81%
Weighted-average estimated fair value of employee options	\$ 0.78	\$ 0.82	\$ 0.73

The Company's computation of expected volatility for the year ended December 31, 2006 and the three months ended March 31, 2006 and 2007 is based on an average of the historical volatility of a peer-group of similar companies. The Company's computation of expected term utilizes the simplified method in accordance with SAB No. 107. The risk-free interest rate for periods within the contractual life of the option is based on the U.S. Treasury yield curve in effect at the time of grant. The Company recognizes stock-based compensation expense for the fair values of these awards on a straight-line basis over the requisite service period of each of these awards.

As of December 31, 2006, the weighted-average remaining contractual term for outstanding stock options and for exercisable stock options was 7.7 years and 7.0 years, respectively, and the intrinsic value of these options was approximately \$2,435,000 and \$2,098,000, respectively. The aggregate intrinsic value represents the total pre-tax intrinsic value, based on the Company's estimated stock price of \$1.06 per share as of December 31, 2006, which would have been received by the option holders had all option holders exercised their options on December 31, 2006. This amount changes based on the estimated value of the Company's common stock. Total intrinsic value of options exercised for the year ended December 31, 2006 was \$19,800, based on 23,400 shares exercised, an estimated stock price during 2006 of \$1.00 per share, and an average exercise price of \$0.15 per share exercised. During the year ended December 31, 2006, the Company granted 565,400 stock options to employees and directors with an estimated total grant-date fair value of \$0.78 per share.

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Cash received from option exercises for the years ended December 31, 2004, 2005 and 2006 was \$23,782, \$16,650 and \$3,600, respectively. The Company recorded no tax benefit related to options exercised during 2004, 2005 and 2006.

Stock Options Granted to Nonemployees

The Company granted 70,000, 82,500, and 185,000 options to consultants for services in the years ended December 31, 2004, 2005, and 2006, respectively. No options were granted to consultants in the three months ended March 31, 2007. The exercise price of the consultant stock options ranges from \$0.25 to \$1.00 per share. Information on nonemployee options granted in 2006 and the first three months of 2007 is as follows:

<u>Grant Date</u>	<u>Number of Shares Granted</u>	<u>Exercise Price per Share</u>	<u>Reassessed Fair Value Per Share</u>	<u>Intrinsic Value</u>
2/12/2006	38,000	\$ 1.00	\$ 1.00	\$ —
12/11/2006	147,000	1.00	1.00	—

The fair value of the underlying common stock for these options was assessed by the Company based on retrospective valuations performed as of December 31, 2005 and December 31, 2006 and a contemporaneous valuation performed on October 31, 2006.

The following table shows the assumptions used to compute the stock-based compensation expense for stock options granted to nonemployees during the years ended December 31, 2004, 2005 and 2006 and the three months ended March 31, 2006 and 2007, using the Black Scholes valuation model.

	<u>Year ended December 31,</u>			<u>Three months ended March 31,</u>	
	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2006</u>	<u>2007</u>
Weighted-average risk-free interest rate	3.83%	3.94%	4.13%	4.00%	4.36%
Weighted-average contractual life (in years)	9.14	8.31	8.21	8.31	8.01
Expected dividend yield	0%	0%	0%	0%	0%
Weighted-average expected volatility	101%	101%	86%	101%	83%

The estimated fair value of options granted to consultants which vested during the years ended December 31, 2004, 2005, and 2006 and the three months ended March 31, 2006 and 2007 was \$18,391, \$44,266, \$92,313, \$22,617 and \$49,402, respectively, and was charged to research and development expense.

8. Income Taxes

The Company originally elected to be treated under the Internal Revenue Code as a subchapter S corporation, commensurate with its inception on December 10, 1996. Accordingly, the Company did not pay federal corporate income taxes on its taxable income nor was it allowed a net operating loss carryover or carryback as a deduction. Instead, the stockholders were responsible for individual federal income taxes on their respective shares of the Company's taxable income or loss. The Company's subchapter S corporation status was terminated effective November 5, 2003 due to the capitalization restructuring to include a second class of stock. Deferred income taxes reflect the net tax effects of temporary differences between the carrying amount of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes.

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In July 2006, the FASB issued Interpretation No. 48, *Accounting for Uncertainty in Income Taxes*, or FIN 48. FIN 48 is an interpretation of FASB Statement No. 109, *Accounting for Income Taxes*. FIN 48 seeks to reduce the diversity in practice associated with certain aspects of measurement and recognition in accounting for income taxes. In addition, FIN 48 provides guidance on derecognition, classification, interest and penalties, and accounting in interim periods and requires expanded disclosure with respect to the uncertainty in income taxes. The Company became subject to the provisions of FIN 48 as of January 1, 2007. The Company believes that its income tax filing positions and deductions will be sustained on audit and does not anticipate any adjustments that will result in a material change to its financial position. Therefore, no reserves for uncertain income tax positions have been recorded pursuant to FIN 48. In addition, the Company did not record a cumulative effect adjustment related to the adoption of FIN 48.

The Company's policy for recording interest and penalties associated with audits is to record such items as a component of income before taxes. Penalties and interest paid or received are recorded in interest expense or interest income, respectively. During the three months ended March 31, 2007, the Company did not record any interest income, interest expense, or penalties related to the settlement of audits for prior periods. Tax years 2003 through 2006 are subject to examination by the United States Federal tax authorities.

At December 31, 2006, the Company had net operating loss carryforwards for federal and state income tax purposes of approximately \$10,600,000. The federal and state net operating loss carryforwards will expire from 2023 to 2026. Additionally, at December 31, 2006 the Company had federal and state research and development tax credits of \$391,000 which expire from 2023 to 2026.

In accordance with Section 382 of the Internal Revenue Code, a change in ownership of greater than 50% within a three-year period will place an annual limitation on the Company's ability to utilize its existing net operating loss carryforwards. The Company may be subject to these annual limitations and, therefore, unable to fully utilize the net operating loss carryforwards.

Significant components of the Company's deferred tax assets and liabilities approximated the following:

	December 31,	
	2005	2006
Deferred tax assets:		
Net operating loss carryforwards	\$ 1,801,000	\$ 4,043,000
R&D credits	137,000	137,000
Other	147,000	224,000
Total deferred tax assets	2,085,000	4,404,000
Deferred tax liabilities:		
Depreciation	(27,000)	(143,000)
Total deferred tax liabilities	(27,000)	(143,000)
Less valuation allowance	(2,058,000)	(4,261,000)
Net deferred tax assets	\$ —	\$ —

The Company has recognized a valuation allowance equal to the net deferred tax assets due to management's assessment that it is not more likely than not that such deferred tax assets will be realized. The tax valuation allowance increased by \$437,000, \$1,618,000 and \$2,203,000 for the years ended December 31, 2004, 2005 and 2006, respectively.

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9. Commitments

The Company currently leases laboratory, manufacturing and office space and equipment under noncancelable operating leases which sometimes provide for rent holidays and escalating payments. Rent under operating leases is recognized on a straight-line basis beginning with lease commencement through the end of the lease term. For the years ended December 31, 2004, 2005 and 2006, and for the three months ended March 31, 2006 and 2007, rental expense was approximately \$112,000, \$212,000, \$471,000, \$57,000 and \$146,000, respectively. Future minimum lease payments under all noncancelable operating leases at March 31, 2007 are as follows:

Year ending December 31,	
2007 (remainder of year)	\$ 339,875
2008	463,392
2009	400,991
2010	263,154
2011	91,605
Total minimum lease payments	<u>\$1,559,017</u>

The Company has entered into consulting and development agreements with some of its advisors, including some surgeon advisors. The Company has agreed to pay some of the surgeon advisors a portion of the net after-tax profits attributable to the sale of specific spine, hip and knee implant product candidates for which the surgeon advisors provided the Company with consulting and related services related to the conceptualization, development, testing, clearance, approval and/or related matters involving implant product candidates. Because more than one of these surgeon advisors contribute to development efforts, the Company is obligated to pay royalties to as many as five surgeon advisors in connection with some of its product candidates. These agreements shall continue until the later of (a) ten years from the date of the agreements, and (b) the expiration of the patent rights relating to the devices covered by the agreements, when rights have been assigned by the individuals to the Company.

In December 2006, the Company entered into an agreement to license patent rights directed to a manufacturing process for porous ceramic for use in the Company's product candidates that will incorporate its *C³C* technology. At the time this agreement was signed, the Company paid \$50,000. During February 2007, the Company paid an additional \$100,000 upon the transfer of the technology to the Company. The Company is obligated to pay an additional \$100,000 upon FDA clearance of the first product in the United States which utilizes the licensed technology. The Company is also obligated to pay future royalties on net sales of products which utilize this technology.

The Company has executed agreements with certain executive officers of the Company which, upon the occurrence of certain events related to a change of control, call for payments to the executives equal to two to three times annual salary and accelerated vesting of previously granted stock options.

10. Related Party Transactions

One of the Company's co-founders and a member of its board of directors is also the sole member and president of Joint Enterprises, L.C., a Utah limited liability company. The Company and Joint Enterprises, L.C. previously entered into an Assignment Agreement, dated August 1, 2001, which has been amended as of

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August 12, 2005. Pursuant to this agreement, the Company acquired rights to the *PreVent Cement Restrictor* in exchange for its agreement to pay a one-time payment of \$25,000 and to pay royalties equal to \$2.50 per unit. Joint Enterprises, L.C. also has the option to elect to receive nonqualified stock options to purchase shares of the Company's common stock in lieu of cash payments, subject to approval by the Company's board of directors. The Company made the \$25,000 payment to this director in September 2004. As of the date hereof, no units of this product have been sold and no royalties for this product have been paid pursuant to this agreement.

The Company completed offerings of its shares of Series A, Series B, Series C and Series D convertible preferred stock through Creation Capital LLC, its placement agent for each of these offerings. The Chief Executive Officer of Creation Capital joined the Company's Board of Directors in December 2006. In connection with the closing of the Series A convertible preferred stock offering, the Company paid its placement agent \$611,700 as commission and \$75,000 for expenses in 2003 and \$182,640 as commission and \$20,875 for expenses in 2004. In connection with the Series B convertible preferred stock offering, the Company paid its placement agent \$480,000 as commission and \$40,000 for expenses in 2004. In connection with the Series C convertible preferred stock offering, the Company paid its placement agent \$1,511,265 as commission and \$75,000 for expenses in 2006. Through February 2009, the placement agent also has the right to receive up to \$2.5 million in the event of a future acquisition of the capital stock of the Company prior to an initial public offering, resulting in a change in control.

11. 401(k) Plan

Effective June 1, 2004, the Company adopted a defined contribution retirement plan under Section 401(k) of the Internal Revenue Code. The plan covers substantially all employees. Eligible employees may contribute amounts to the plan, via payroll withholdings, subject to certain limitations. The plan permits, but does not require, additional matching contributions to the plan by the Company on behalf of the participants in the plan. To date, the Company has not made any matching contributions to the plan.



A M E D I C A

PART II
INFORMATION NOT REQUIRED IN PROSPECTUS

Item 13. Other Expenses of Issuance and Distribution.

The following table sets forth an itemization of the various costs and expenses, all of which we will pay, in connection with the issuance and distribution of the securities being registered. All of the amounts shown are estimated except the SEC Registration Fee, The NASDAQ Global Market Listing Fee and the NASD Filing Fee.

SEC Registration Fee	\$ 2,294.83
The NASDAQ Global Market Listing Fee	100,000.00
NASD Filing Fee	7,975.00
Printing and Engraving Fees	*
Legal Fees and Expenses	*
Accounting Fees and Expenses	*
Blue Sky Fees and Expenses	*
Transfer Agent and Registrar Fees	*
Miscellaneous	*
Total	<u>\$ *</u>

* To be provided by amendment.

Item 14. Indemnification of Directors and Officers.

Our amended and restated certificate of incorporation and amended and restated bylaws provide that each person who was or is made a party or is threatened to be made a party to or is otherwise involved (including, without limitation, as a witness) in any action, suit or proceeding, whether civil, criminal, administrative or investigative, by reason of the fact that he or she is or was one of our directors or officers or is or was serving at our request as a director, officer, employee or agent of another corporation, or of a partnership, joint venture, trust or other enterprise, including service with respect to an employee benefit plan, whether the basis of such proceeding is alleged action in an official capacity as a director, officer or trustee or in any other capacity while serving as a director, officer or trustee, shall be indemnified and held harmless by us to the fullest extent authorized by the Delaware General Corporation Law against all expense, liability and loss (including attorneys' fees, judgments, fines, ERISA excise taxes or penalties and amounts paid in settlement) reasonably incurred or suffered in connection with legal proceedings. A director or officer will not receive indemnification if he or she is found not to have acted in good faith and in a manner he or she reasonably believed to be in, or not opposed to, our best interest.

Section 145 of the Delaware General Corporation Law permits a corporation to indemnify any director or officer of the corporation against expenses (including attorney's fees), judgments, fines and amounts paid in settlement actually and reasonably incurred in connection with any action, suit or proceeding brought by reason of the fact that such person is or was a director or officer of the corporation, if such person acted in good faith and in a manner that he reasonably believed to be in, or not opposed to, the best interests of the corporation, and, with respect to any criminal action or proceeding, if he or she had no reasonable cause to believe his or her conduct was unlawful. In a derivative action, (i.e., one brought by or on behalf of the corporation), indemnification may be provided only for expenses actually and reasonably incurred by any director or officer in connection with the defense or settlement of such an action or suit if such person acted in good faith and in a manner that he or she reasonably believed to be in, or not opposed to, the best interests of the corporation, except that no indemnification shall be provided if such person shall have been adjudged to be liable to the corporation, unless and only to the extent that the court in which the action or suit was brought shall determine that such person is fairly and reasonably entitled to indemnity for such expenses despite such adjudication of liability.

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Pursuant to Section 102(b)(7) of the Delaware General Corporation Law, Article Tenth of our amended and restated certificate of incorporation eliminates the liability of a director to us or our stockholders for monetary damages for such a breach of fiduciary duty as a director, except for liabilities arising:

- from any breach of the director's duty of loyalty to us or our stockholders;
- from acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law;
- under Section 174 of the Delaware General Corporation Law; or
- from any transaction from which the director derived an improper personal benefit.

We carry insurance policies insuring our directors and officers against certain liabilities that they may incur in their capacity as directors and officers. In addition, we expect to enter into indemnification agreements with each of our directors and executive officers prior to completion of the offering.

Additionally, reference is made to the Underwriting Agreement filed as Exhibit 1.1 hereto, which provides for indemnification by the underwriters of Amedica Corporation, our directors and officers who sign the registration statement and persons who control Amedica Corporation, under certain circumstances.

Item 15. Recent Sales of Unregistered Securities.

In the three years preceding the filing of this registration statement, we have sold the following securities that were not registered under the Securities Act.

(a) Issuances of Capital Stock and Warrants

In late 2004 through the date hereof, we completed offerings of our Series A, Series B, Series C and Series D convertible preferred stock through Creation Capital LLC, as placement agent. The sale and issuance of the securities set forth below were deemed to be exempt from registration under the Securities Act by virtue of Section 4(2) or Regulation D promulgated thereunder.

- Between November 5, 2003 and January 28, 2004, we raised \$8.4 million in gross proceeds and sold 14,000,058 shares of our Series A convertible preferred stock at a purchase price of \$0.60 per share to 102 accredited investors. In connection with this financing, we also agreed to grant Creation Capital LLC, as partial compensation for its services, warrants to purchase 2,100,000 shares of our Series A convertible preferred stock at a purchase price of \$0.66 per share. At the request of Creation Capital LLC, we issued such warrants to 20 designees of Creation Capital LLC, each of whom is an accredited investor. These warrants are currently exercisable through the seventh anniversary of the date of issuance of such warrants.
- Between October 25, 2004 and November 9, 2004, we raised \$6.0 million in gross proceeds and sold 5,000,000 shares of our Series B convertible preferred stock at a purchase price of \$1.20 per share to 72 accredited investors. In connection with this financing, we also agreed to grant Creation Capital LLC, as partial compensation for its services, warrants to purchase 500,000 shares of our Series B convertible preferred stock at a purchase price of \$1.32 per share. At the request of Creation Capital LLC, we issued such warrants to 13 designees of Creation Capital LLC, each of whom is an accredited investor. These warrants are currently exercisable through the seventh anniversary of the date of issuance of such warrants.
- On February 24, 2006, we raised \$16.8 million in gross proceeds and sold 8,400,000 shares at \$2.00 per share of our Series C convertible preferred stock to 114 accredited investors. In connection with this financing, we also agreed to grant Creation Capital LLC, as partial compensation for its services, warrants to purchase 1,203,750 shares of Series C convertible preferred stock at a purchase price of \$2.20 per share. At the request of Creation Capital LLC, we issued such warrants to 19 designees of

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Creation Capital LLC, each of whom is an accredited investor. These warrants are currently exercisable through the seventh anniversary of the date of issuance of such warrants.

- On April 17, 2007 and April 27, 2007, we raised \$10.2 million and \$3.2 million in gross proceeds, respectively, and sold 3,404,000 and 1,052,500 shares, respectively, at \$3.00 per share of our Series D convertible preferred stock to 60 accredited investors. In connection with this financing, we also agreed to grant Creation Capital LLC, as partial compensation for its services, warrants to purchase 253,290 shares of Series D convertible preferred stock at a purchase price of \$3.30 per share, of which, at the request of Creation Capital LLC, a warrant to purchase 30,000 shares was issued to its designee, an accredited investor. Upon completion of this offering, these warrants will become exercisable through the seventh anniversary of the date of issuance of such warrants.

(b) Certain Grants and Exercises of Stock Options

The sale and issuance of the securities described below were deemed to be exempt from registration under the Securities Act in reliance on Rule 701 promulgated under Section 3(b) of the Securities Act, as transactions by an issuer not involving a public offering or transactions pursuant to compensatory benefit plans and contracts relating to compensation as provided under Rule 701.

Pursuant to our 2003 Stock Option Plan and related stock option agreements, we have issued options to purchase an aggregate of 4,123,150 shares of common stock as of March 31, 2007. Of these options:

- options to purchase 480,313 shares of common stock have been canceled or lapsed without being exercised;
- options to purchase 185,210 shares of common stock have been exercised; and
- options to purchase a total of 3,457,627 shares of common stock are currently outstanding, at a weighted average exercise price of \$0.40 per share.

Item 16. Exhibits and Financial Statement Schedules.

(a) Exhibits

<u>Exhibit Number</u>	<u>Description of Exhibit</u>
1.1*	Form of Underwriting Agreement.
3.1**	Amended and Restated Certificate of Incorporation of Amedica Corporation, as amended.
3.2*	Amended and Restated Certificate of Incorporation of Amedica Corporation to be filed upon completion of this offering.
3.3**	Amended and Restated By-Laws of Amedica Corporation.
3.4*	Amended and Restated By-Laws of Amedica Corporation to be effective upon completion of this offering.
4.1*	Form of Common Stock Certificate.
4.2**	Third Amended and Restated Registration Rights Agreement by and among Amedica Corporation and certain securityholders of Amedica Corporation dated as of May 15, 2007.
4.3**	Warrant Agreement by and between Creation Capital LLC and Amedica Corporation dated as of March 1, 2004.
4.4**	Warrant Agreement by and between Creation Capital LLC and Amedica Corporation dated as October 25, 2004.
4.5**	Warrant Agreement by and between Creation Capital LLC and Amedica Corporation dated as of February 24, 2006.

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<u>Exhibit Number</u>	<u>Description of Exhibit</u>
4.6**	Series D Warrant Agreement by and between Creation Capital LLC and Amedica Corporation dated as of April 27, 2007.
5.1*	Opinion of Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., counsel to Amedica Corporation, with respect to the legality of securities being registered.
10.1**	Form of Subscription Agreement for Series C Convertible Preferred Stock.
10.2**	Form of Subscription Agreement for Series D Convertible Preferred Stock.
10.3†*	Amedica Corporation 2003 Stock Option Plan.
10.4†	Form of 2003 Incentive Stock Option Agreement.
10.5†	Form of 2003 Non-Qualified Stock Option Agreement.
10.6†**	Employment Offer Letter by and between Amedica Corporation and Eugene B. Jones dated April 2, 2004.
10.7†**	Employment Offer Letter by and between Amedica Corporation and Bryan J. McEntire dated May 29, 2004.
10.8†**	Employment Offer Letter by and between Amedica Corporation and Robert M. Wolfarth dated November 11, 2004.
10.9†**	Employment Offer Letter by and between Amedica Corporation and Cameron G. Rouns dated December 17, 2004.
10.10†**	Employment Offer Letter by and between Amedica Corporation and Warionex (“Jose”) Belen dated May 31, 2005.
10.11†**	Employment Offer Letter by and between Amedica Corporation and Reyn E. Gallacher dated January 3, 2006.
10.12†**	Employment Offer Letter by and between Amedica Corporation and Kenneth W. Ludwig dated May 10, 2006.
10.13†**	Severance Agreement by and between Amedica Corporation and Ashok C. Khandkar dated May 23, 2005.
10.14†**	Severance Agreement by and between Amedica Corporation and Bryan J. McEntire dated May 23, 2005.
10.15†**	Severance Agreement by and between Amedica Corporation and Warionex (“Jose”) Belen dated as of February 14, 2006.
10.16†**	Severance Agreement by and between Amedica Corporation and Reyn E. Gallacher dated March 27, 2007.
10.17†**	Severance Agreement by and between Amedica Corporation and Kenneth W. Ludwig dated March 27, 2007.
10.18†	Separation Agreement by and between Amedica Corporation and Eugene B. Jones dated January 5, 2007.
10.19**	Assignment Agreement by and between Joint Enterprises, L.C. and Amedica Corporation dated August 1, 2001.
10.20**	Amendment to Assignment by and between Joint Enterprises, L.C. and Amedica Corporation dated August 12, 2005.
10.21**	Lease by and between Paradigm Resources, L.C. and Amedica Corporation dated as of March 22, 2004.
10.22**	First Amendment to Lease by and between Paradigm Resources, L.C. and Amedica Corporation dated as of May 11, 2005.

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<u>Exhibit Number</u>	<u>Description of Exhibit</u>
10.23**	Second Amendment to Lease by and between Paradigm Resources, L.C. and Amedica Corporation dated as of August 15, 2006.
10.24■	Letter Agreement between Creation Capital LLC and Amedica Corporation dated November 14, 2005.
10.25■	Letter Agreement between Creation Capital LLC and Amedica Corporation dated March 26, 2007.
10.26■	Master Lease Agreement by and between Chase Equipment Leasing, Inc. and Amedica Corporation dated as of April 28, 2006.
10.27	Continuing Pledge Agreement by and between Chase Equipment Leasing, Inc. dated as of April 28, 2006.
10.27.1	Security Agreement by and between Chase Equipment Leasing, Inc. and Amedica Corporation dated as of June 30, 2006.
10.28**	Industrial Building Lease between 560 Arapeen LLC, Seventh Avenue LLC, First Avenue LLC, Alaska Limited Liability Companies and Amedica Corporation dated as of February 20, 2006.
10.29■	Product Development and License Agreement by and between Amedica Corporation and Dytech Corporation Ltd. dated December 20, 2006.
10.30■	Development Agreement by and between Amedica Corporation and Jeffrey C. Wang, M.D. dated as of May 8, 2004.
10.31■	Amendments to Development Agreement by and between Amedica Corporation and Jeffrey C. Wang, M.D. dated as of June 2, 2006.
10.32■	Development Agreement by and between Amedica Corporation and James A. Youssef, M.D. dated as of May 8, 2004.
10.33■	Amendment to Development Agreement by and between Amedica Corporation and James A. Youssef, M.D. dated as of May 24, 2006.
10.34■	Development Agreement by and between Amedica Corporation and Jean-Jacques Abitol, M.D. dated as of February 16, 2005.
10.35■	Development Agreement by and between Amedica Corporation and Gregg S. Gurwitz, M.D. dated as of February 21, 2005.
10.36■	Development Agreement by and between Amedica Corporation and Andrew T. Dailey, M.D. dated as of April 19, 2005.
10.37■	Development Agreement by and between Amedica Corporation and Scott D. Boden, M.D. dated as of July 21, 2005.
10.38■	Development Agreement by and between Amedica Corporation and Carl Laurysen, M.D. dated as of August 8, 2005.
10.39■	Development Agreement by and between Amedica Corporation and Alan S. Hilibrand, M.D. dated as of September 8, 2005.
10.40■	Development Agreement by and between Amedica Corporation and Rodney Plaster, M.D. dated as of December 12, 2005.
10.41■	Development Agreement by and between Amedica Corporation and Michael P. Bolognesi, M.D. dated as of January 21, 2006.
10.42■	Development Agreement by and between Amedica Corporation and Steven T. Lyons, M.D. dated as of February 20, 2006.
10.43■	Development Agreement by and between Amedica Corporation and Harvinder S. Sandhu, M.D. dated as of May 31, 2006.
10.44■	Development Agreement by and between Amedica Corporation and B. Sonny Bal, M.D. dated as of December 29, 2006.

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<u>Exhibit Number</u>	<u>Description of Exhibit</u>
10.45■	Amended and Restated Consulting Agreement by and between Amedica Corporation and Darrel S. Brodke, M.D. dated as of October 20, 2003.
10.46■	Amendments to Amended and Restated Consulting Agreement by and between Amedica Corporation and Darrel S. Brodke, M.D. dated as of May 30, 2006.
23.1	Consent of Ernst & Young LLP.
23.2*	Consent of Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C. (see Exhibit 5.1).
23.3	Consent of LECG, LLC.
24.1**	Power of Attorney.

* To be filed by amendment.

** Previously filed.

■ Portions of this Exhibit have been omitted and filed separately with the SEC.

† Management contract or compensatory plan or arrangement.

(b) Financial Statement Schedules

Financial Statement Schedules are omitted because the information is included in our financial statements or notes to those financial statements.

Item 17. Undertakings

The undersigned registrant hereby undertakes to provide to the underwriters at the closing specified in the Underwriting Agreement, certificates in such denominations and registered in such names as required by the underwriters to permit prompt delivery to each purchaser.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the registrant pursuant to the provisions described under Item 14 above, or otherwise, the registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

The undersigned registrant hereby undertakes that:

(1) For purposes of determining any liability under the Securities Act, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective.

(2) For the purpose of determining any liability under the Securities Act, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

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23.3	Consent of LECG, LLC.
24.1**	Power of Attorney.

* To be filed by amendment.

** Previously filed.

■ Portions of this Exhibit have been omitted and filed separately with the SEC.

† Management contract or compensatory plan or arrangement.

INCENTIVE STOCK OPTION AGREEMENT**AMEDICA CORPORATION**

AGREEMENT made as of the date, between Amedica Corporation (the "Company"), a Delaware corporation having a principal place of business in Salt Lake City, Utah and employee of address , zip an employee of the Company (the "Employee").

WHEREAS, the Company desires to grant to the Employee an Option to purchase shares of its common stock, \$.01 par value per share (the "Shares"), under and for the purposes set forth in the Company's 2003 Stock Option Plan (the "Plan");

WHEREAS, the Company and the Employee understand and agree that any terms used and not defined herein have the same meanings as in the Plan; and

WHEREAS, the Company and the Employee each intend that the Option granted herein qualify as an ISO.

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth and for other good and valuable consideration, the parties hereto agree as follows:

1. GRANT OF OPTION.

The Company hereby grants to the Employee the right and option to purchase all or any part of an aggregate of number (x) Shares, on the terms and conditions and subject to all the limitations set forth herein, under United States securities and tax laws, and in the Plan, which is incorporated herein by reference. The Employee acknowledges receipt of a copy of the Plan.

2. PURCHASE PRICE.

The purchase price of the Shares covered by the Option shall be \$ per Share, subject to adjustment, as provided in the Plan, in the event of a stock split, reverse stock split or other events affecting the holders of Shares (the "Purchase Price"). Payment shall be made in accordance with Paragraph 7 of the Plan.

3. EXERCISABILITY OF OPTION.

Subject to the terms and conditions set forth in this Agreement and the Plan, the Option granted hereby shall become exercisable as follows:

After one year	up to number/4 (1/4 th grant amount) Shares
On next month and on the x th day of each following month through and including (month prior to 4 year anniversary)	an additional (remaining shares/36 months) Shares
On 4 year anniversary	an additional (remaining shares/36 months) Shares

The foregoing rights are cumulative and are subject to the other terms and conditions of this Agreement and the Plan.

Notwithstanding the foregoing, in the event of a Change of Control (as defined below), 100% of the Shares which would have vested in each vesting installment remaining under this Option will be vested for purposes of Section 16(B) of the Plan unless this Option has otherwise expired or been terminated pursuant to its terms or the terms of the Plan.

Change of Control means the occurrence of any of the following events:

- (i) Ownership. Any "Person" (as such term is used in Sections 13(d) and 14(d) of the Securities Exchange Act of 1934, as amended) becomes the "Beneficial Owner" (as defined in Rule 13d-3 under said Act), directly or indirectly, of securities of the Company representing 50% or more of the total voting power represented by the Company's then outstanding voting securities (excluding for this purpose the Company or its Affiliates or any employee benefit plan of the Company) pursuant to a transaction or a series of related transactions which the Board of Directors does not approve; or
- (ii) Merger/Sale of Assets. A merger or consolidation of the Company whether or not approved by the Board of Directors, other than a merger or consolidation which would result in the voting securities of the Company outstanding immediately prior thereto continuing to represent (either by remaining outstanding or by being converted into voting securities of the surviving entity or the parent of such corporation) at least 50% of the total voting power represented by the voting securities of the Company or such surviving entity or parent of such corporation outstanding immediately after such merger or consolidation, or the stockholders of the Company approve an agreement for the sale or disposition by the Company of all or substantially all of the Company's assets; or
- (iii) Change in Board Composition. A change in the composition of the Board of Directors, as a result of which fewer than a majority of the directors are Incumbent Directors. "Incumbent Directors" shall mean directors who either (A) are directors of the Company as of August 8, 2003, or (B) are elected, or nominated for election, to the Board of Directors with the affirmative votes of at least a majority of the Incumbent Directors at the

time of such election or nomination (but shall not include an individual whose election or nomination is in connection with an actual or threatened proxy contest relating to the election of directors to the Company.)

4. TERM OF OPTION.

The Option shall terminate ten years from the date of this Agreement or, if the Employee owns as of the date hereof more than 10% of the total combined voting power of all classes of capital stock of the Company or an Affiliate, five years from the date of this Agreement, but shall be subject to earlier termination as provided herein or in the Plan.

If the Employee ceases to be an employee of the Company or of an Affiliate (for any reason other than the death or Disability of the Employee or termination of the Employee's employment for "cause" (as defined in the Plan), the Option may be exercised, if it has not previously terminated, within three months after the date the Employee ceases to be an employee of the Company or an Affiliate, or within the originally prescribed term of the Option, whichever is earlier, but may not be exercised thereafter. In such event, the Option shall be exercisable only to the extent that the Option has become exercisable and is in effect at the date of such cessation of employment.

Notwithstanding the foregoing, in the event of the Employee's Disability or death within three months after the termination of employment, the Employee or the Employee's Survivors may exercise the Option within one year after the date of the Employee's termination of employment, but in no event after the date of expiration of the term of the Option.

In the event the Employee's employment is terminated by the Employee's employer for "cause" (as defined in the Plan), the Employee's right to exercise any unexercised portion of this Option shall cease immediately as of the time the Employee is notified his or her employment is terminated for "cause," and this Option shall thereupon terminate. Notwithstanding anything herein to the contrary, if subsequent to the Employee's termination as an employee, but prior to the exercise of the Option, the Board of Directors of the Company determines that, either prior or subsequent to the Employee's termination, the Employee engaged in conduct which would constitute "cause," then the Employee shall immediately cease to have any right to exercise the Option and this Option shall thereupon terminate.

In the event of the Disability of the Employee, as determined in accordance with the Plan, the Option shall be exercisable within one year after the Employee's termination of employment or, if earlier, within the term originally prescribed by the Option. In such event, the Option shall be exercisable:

- (a) to the extent that the Option has become exercisable but has not been exercised as of the date of Disability; and
- (b) in the event rights to exercise the Option accrue periodically, to the extent of a pro rata portion through the date of Disability of any additional vesting rights that would have accrued on the next vesting date had the Employee not become Disabled. The proration shall be based upon the number of days accrued in the current vesting period prior to the date of Disability.

In the event of the death of the Employee while an employee of the Company or of an Affiliate, the Option shall be exercisable by the Employee's Survivors within one year after the date of death of the Employee or, if earlier, within the originally prescribed term of the Option. In such event, the Option shall be exercisable:

- (x) to the extent that the Option has become exercisable but has not been exercised as of the date of death; and
- (y) in the event rights to exercise the Option accrue periodically, to the extent of a pro rata portion through the date of death of any additional vesting rights that would have accrued on the next vesting date had the Employee not died. The proration shall be based upon the number of days accrued in the current vesting period prior to the Employee's date of death.

5. METHOD OF EXERCISING OPTION.

Subject to the terms and conditions of this Agreement, the Option may be exercised by written notice to the Company or its designee, in substantially the form of Exhibit A attached hereto. Such notice shall state the number of Shares with respect to which the Option is being exercised and shall be signed by the person exercising the Option. Payment of the purchase price for such Shares shall be made in accordance with Paragraph 7 of the Plan. The Company shall deliver a certificate or certificates representing such Shares as soon as practicable after the notice shall be received, provided, however, that the Company may delay issuance of such Shares until completion of any action or obtaining of any consent, which the Company deems necessary under any applicable law (including, without limitation, state securities or "blue sky" laws). The certificate or certificates for the Shares as to which the Option shall have been so exercised shall be registered in the Company's share register in the name of the person so exercising the Option (or, if the Option shall be exercised by the Employee and if the Employee shall so request in the notice exercising the Option, shall be registered in the name of the Employee and another person jointly, with right of survivorship) and shall be delivered as provided above to or upon the written order of the person exercising the Option. In the event the Option shall be exercised, pursuant to Section 4 hereof, by any person other than the Employee, such notice shall be accompanied by appropriate proof of the right of such person to exercise the Option. All Shares that shall be purchased upon the exercise of the Option as provided herein shall be fully paid and nonassessable.

6. PARTIAL EXERCISE.

Exercise of this Option to the extent above stated may be made in part at any time and from time to time within the above limits, except that no fractional share shall be issued pursuant to this Option.

7. NON-ASSIGNABILITY.

The Option shall not be transferable by the Employee otherwise than by will or by the laws of descent and distribution. The Option shall be exercisable, during the Employee's lifetime, only by the Employee (or, in the event of legal incapacity or incompetency, by the Employee's guardian or representative) and shall not be assigned, pledged or hypothecated in any way (whether by operation of law or otherwise) and shall not be subject to execution, attachment or similar process. Any attempted transfer, assignment, pledge, hypothecation or other disposition of the Option or of any rights granted hereunder contrary to the provisions of this Section 7, or the levy of any attachment or similar process upon the Option shall be null and void.

8. NO RIGHTS AS STOCKHOLDER UNTIL EXERCISE.

The Employee shall have no rights as a stockholder with respect to Shares subject to this Agreement until registration of the Shares in the Company's share register in the name of the Employee. Except as is expressly provided in the Plan with respect to certain changes in the capitalization of the Company, no adjustment shall be made for dividends or similar rights for which the record date is prior to the date of such registration.

9. ADJUSTMENTS.

The Plan contains provisions covering the treatment of Options in a number of contingencies such as stock splits and mergers. Provisions in the Plan for adjustment with respect to stock subject to Options and the related provisions with respect to successors to the business of the Company are hereby made applicable hereunder and are incorporated herein by reference; provided, however, that in the event of a Change of Control (as defined in Section 3 above) 100% of the Shares which would have vested in each vesting installment remaining under this Option will be vested for purposes of Section 16(B) of the Plan.

10. TAXES.

The Employee acknowledges that any income or other taxes due from him or her with respect to this Option or the Shares issuable pursuant to this Option shall be the Employee's responsibility.

In the event of a Disqualifying Disposition (as defined in Section 15 below) or if the Option is converted into a Non-Qualified Option and such Non-Qualified Option is exercised, the Company may withhold from the Employee's remuneration, if any, the minimum statutory amount of federal, state and local withholding taxes attributable to such amount that is considered compensation includable in such person's gross income. At the Company's discretion, the amount required to be withheld may be withheld in cash from such remuneration, or in kind from the Shares otherwise deliverable to the Employee on exercise of the Option. The Employee further agrees that, if the Company does not withhold an amount from the Employee's remuneration sufficient to satisfy the Company's income tax withholding obligation, the Employee will reimburse the Company on demand, in cash, for the amount under-withheld.

11. PURCHASE FOR INVESTMENT.

Unless the offering and sale of the Shares to be issued upon the particular exercise of the Option shall have been effectively registered under the Securities Act of 1933, as now in force or hereafter amended (the "1933 Act"), the Company shall be under no obligation to issue the Shares covered by such exercise unless and until the following conditions have been fulfilled:

- (a) The person(s) who exercise the Option shall warrant to the Company, at the time of such exercise, that such person(s) are acquiring such Shares for their own respective accounts, for investment, and not with a view to, or for sale in connection with, the distribution of any such Shares, in which event the person(s) acquiring such Shares shall be bound by the provisions of the following legend which shall be endorsed upon the certificate(s) evidencing the Shares issued pursuant to such exercise:
 - “The shares represented by this certificate have been taken for investment and they may not be sold or otherwise transferred by any person, including a pledgee, unless (1) either (a) a Registration Statement with respect to such shares shall be effective under the Securities Act of 1933, as amended, or (b) the Company shall have received an opinion of counsel satisfactory to it that an exemption from registration under such Act is then available, and (2) there shall have been compliance with all applicable state securities laws;” and
- (b) If the Company so requires, the Company shall have received an opinion of its counsel that the Shares may be issued upon such particular exercise in compliance with the 1933 Act without registration thereunder. Without limiting the generality of the foregoing, the Company may delay issuance of the Shares until completion of any action or obtaining of any consent, which the Company deems necessary under any applicable law (including without limitation state securities or “blue sky” laws).

12. RESTRICTIONS ON TRANSFER OF SHARES.

12.1 The Shares acquired by the Employee pursuant to the exercise of the Option granted hereby shall not be transferred by the Employee except as permitted herein.

12.2 In the event of the Employee's termination of employment for any reason, the Company shall have the option, but not the obligation, to repurchase all or any part of the Shares issued pursuant to this Agreement (including, without limitation, Shares purchased after termination of employment, Disability or death in accordance with Section 4 hereof). In the event the Company does not, upon the termination of employment of the Employee (as described above), exercise its option pursuant to this Section 12.2, the restrictions set forth in the balance of this Agreement shall not thereby lapse, and the Employee for himself or herself, his or her heirs, legatees, executors, administrators and other successors in interest, agrees that the Shares shall remain subject to such restrictions. The following provisions shall apply to a repurchase under this Section 12.2:

- (i) The per share repurchase price of the Shares to be sold to the Company upon exercise of its option under this Section 12.2 shall be equal to the Fair Market Value of each such Share determined in accordance with the Plan as of the date of termination of employment; provided, however, in the event of a termination by the Company for "cause" (as defined in the Plan), the per share repurchase price of the Shares to be sold to the Company upon exercise of its option under this Section 12.2 shall be equal to \$.01.
- (ii) The Company's option to repurchase the Employee's Shares in the event of termination of employment shall be valid for a period of 18 months commencing with the date of such termination of employment.
- (iii) In the event the Company shall be entitled to and shall elect to exercise its option to repurchase the Employee's Shares under this Section 12.2, the Company shall notify the Employee, or in case of death, his or her Survivor, in writing of its intent to repurchase the Shares. Such written notice may be mailed by the Company up to and including the last day of the time period provided for in Section 12.2(ii) for exercise of the Company's option to repurchase.
- (iv) The written notice to the Employee shall specify the address at, and the time and date on, which payment of the repurchase price is to be made (the "Closing"). The date specified shall not be less than ten days nor more than 60 days from the date of the mailing of the notice, and the Employee or his or her successor in interest with respect to the Shares shall have no further rights as the owner thereof from and after the date specified in the notice. At the Closing, the repurchase price shall be delivered to the Employee or his or her successor in interest and the Shares being purchased, duly endorsed for transfer, shall, to the extent that they are not then in the possession of the Company, be delivered to the Company by the Employee or his or her successor in interest.

12.3 It shall be a condition precedent to the validity of any sale or other transfer of any Shares by the Employee that the following restrictions be complied with (except as hereinafter otherwise provided):

- (i) No Shares owned by the Employee may be sold, pledged or otherwise transferred (including by gift or devise) to any person or entity, voluntarily, or by operation of law, except in accordance with the terms and conditions hereinafter set forth.
- (ii) Before selling or otherwise transferring all or part of the Shares, the Employee shall give written notice of such intention to the Company, which notice shall include the name of the proposed transferee, the proposed purchase price per share, the terms of payment of such purchase price and all other matters relating to such sale or transfer and shall be accompanied by a copy of the binding written

agreement of the proposed transferee to purchase the Shares of the Employee. Such notice shall constitute a binding offer by the Employee to sell to the Company such number of the Shares then held by the Employee as are proposed to be sold in the notice at the monetary price per share designated in such notice, payable on the terms offered to the Employee by the proposed transferee (provided, however, that the Company shall not be required to meet any non-monetary terms of the proposed transfer, including, without limitation, delivery of other securities in exchange for the Shares proposed to be sold). The Company shall give written notice to the Employee as to whether such offer has been accepted in whole by the Company within 60 days after its receipt of written notice from the Employee. The Company may only accept such offer in whole and may not accept such offer in part. Such acceptance notice shall fix a time, location and date for the closing on such purchase ("Closing Date") which shall not be less than ten nor more than sixty days after the giving of the acceptance notice, provided, however, if any of the Shares to be sold pursuant to this Section 12.3 have been held by the Employee for less than six months, then the Closing Date may be extended by the Company until no more than ten days after such Shares have been held by the Employee for six months. The place for such closing shall be at the Company's principal office. At such closing, the Employee shall accept payment as set forth herein and shall deliver to the Company in exchange therefor certificates for the number of Shares stated in the notice accompanied by duly executed instruments of transfer.

- (iii) If the Company shall fail to accept any such offer, the Employee shall be free to sell all, but not less than all, of the Shares set forth in his or her notice to the designated transferee at the price and terms designated in the Employee's notice, provided that (i) such sale is consummated within six months after the giving of notice by the Employee to the Company as aforesaid, and (ii) the transferee first agrees in writing to be bound by the provisions of this Section 12 so that such transferee (and all subsequent transferees) shall thereafter only be permitted to sell or transfer the Shares in accordance with the terms hereof. After the expiration of such six months, the provisions of this Section 12.3 shall again apply with respect to any proposed voluntary transfer of the Employee's Shares.
- (iv) The restrictions on transfer contained in this Section 12.3 shall not apply to (a) transfers by the Employee to his or her spouse or children or to a trust for the benefit of his or her spouse or children, (b) transfers by the Employee to his or her guardian or conservator, and (c) or transfers by the Employee, in the event of his or her death, to his or her executor(s) or administrator(s) or to trustee(s) under his or her will (collectively, "Permitted Transferees"); provided however, that in any such event the Shares so transferred in the hands of each such Permitted Transferee shall remain subject to this Agreement, and each such Permitted Transferee shall so acknowledge in writing as a condition precedent to the effectiveness of such transfer.

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- (v) The provisions of this Section 12.3 may be waived by the Company. Any such waiver may be unconditional or based upon such conditions as the Company may impose.

12.4 In the event that the Employee or his or her successor in interest fails to deliver the Shares to be repurchased by the Company under this Agreement, the Company may elect (a) to establish a segregated account in the amount of the repurchase price, such account to be turned over to the Employee or his or her successor in interest upon delivery of such Shares, and (b) immediately to take such action as is appropriate to transfer record title of such Shares from the Employee to the Company and to treat the Employee and such Shares in all respects as if delivery of such Shares had been made as required by this Agreement. The Employee hereby irrevocably grants the Company a power of attorney which shall be coupled with an interest for the purpose of effectuating the preceding sentence.

12.5 If the Company shall pay a stock dividend or declare a stock split on or with respect to any of its Common Stock, or otherwise distribute securities of the Company to the holders of its Common Stock, the number of shares of stock or other securities of the Company issued with respect to the shares then subject to the restrictions contained in this Agreement shall be added to the Shares subject to the Company's rights to repurchase pursuant to this Agreement. If the Company shall distribute to its stockholders shares of stock of another corporation, the shares of stock of such other corporation, distributed with respect to the Shares then subject to the restrictions contained in this Agreement, shall be added to the Shares subject to the Company's rights to repurchase pursuant to this Agreement.

12.6 If the outstanding shares of Common Stock of the Company shall be subdivided into a greater number of shares or combined into a smaller number of shares, or in the event of a reclassification of the outstanding shares of Common Stock of the Company, or if the Company shall be a party to a merger, consolidation or capital reorganization, there shall be substituted for the Shares then subject to the restrictions contained in this Agreement such amount and kind of securities as are issued in such subdivision, combination, reclassification, merger, consolidation or capital reorganization in respect of the Shares subject immediately prior thereto to the Company's rights to repurchase pursuant to this Agreement.

12.7 The Company shall not be required to transfer any Shares on its books which shall have been sold, assigned or otherwise transferred in violation of this Agreement, or to treat as owner of such Shares, or to accord the right to vote as such owner or to pay dividends to, any person or organization to which any such Shares shall have been so sold, assigned or otherwise transferred, in violation of this Agreement.

12.8 The provisions of Sections 12.1, 12.2 and 12.3 shall terminate upon the effective date of the registration of the Shares pursuant to the Securities Exchange Act of 1934.

12.9 If, in connection with a registration statement filed by the Company pursuant to the 1933 Act, the Company or its underwriter so requests, the Employee will agree not to sell any Shares for a period not to exceed 180 days following the effectiveness of such registration.

12.10 The Employee acknowledges and agrees that neither the Company, its shareholders nor its directors and officers, has any duty or obligation to disclose to the Employee any material information regarding the business of the Company or affecting the value of the Shares before, at the time of, or following a termination of the employment of the Employee by the Company, including, without limitation, any information concerning plans for the Company to make a public offering of its securities or to be acquired by or merged with or into another firm or entity.

12.11 All certificates representing the Shares to be issued to the Employee pursuant to this Agreement shall have endorsed thereon a legend substantially as follows: "The shares represented by this certificate are subject to restrictions set forth in an Incentive Stock Option Agreement dated [grant date] with this Company, a copy of which Agreement is available for inspection at the offices of the Company or will be made available upon request."

13. NO OBLIGATION TO EMPLOY.

The Company is not by the Plan or this Option obligated to continue the Employee as an employee of the Company or an Affiliate. The Employee acknowledges: (i) that the Plan is discretionary in nature and may be suspended or terminated by the Company at any time; (ii) that the grant of the Option is a one-time benefit which does not create any contractual or other right to receive future grants of options, or benefits in lieu of options; (iii) that all determinations with respect to any such future grants, including, but not limited to, the times when options shall be granted, the number of shares subject to each option, the option price, and the time or times when each option shall be exercisable, will be at the sole discretion of the Company; (iv) that the Employee's participation in the Plan is voluntary; (v) that the value of the Option is an extraordinary item of compensation which is outside the scope of the Employee's employment contract, if any; and (vi) that the Option is not part of normal or expected compensation for purposes of calculating any severance, resignation, redundancy, end of service payments, bonuses, long-service awards, pension or retirement benefits or similar payments.

14. OPTION IS INTENDED TO BE AN ISO.

The parties each intend that the Option be an ISO so that the Employee (or the Employee's Survivors) may qualify for the favorable tax treatment provided to holders of Options that meet the standards of Section 422 of the Code. Any provision of this Agreement or the Plan which conflicts with the Code so that this Option would not be deemed an ISO is null and void and any ambiguities shall be resolved so that the Option qualifies as an ISO. Nonetheless, if the Option is determined not to be an ISO, the Employee understands that neither the Company nor any Affiliate is responsible to compensate him or her or otherwise make up for the treatment of the Option as a Non-qualified Option and not as an ISO. The Employee should consult with the Employee's own tax advisors regarding the tax effects of the Option and the requirements necessary to obtain favorable tax treatment under Section 422 of the Code, including, but not limited to, holding period requirements.

15. NOTICE TO COMPANY OF DISQUALIFYING DISPOSITION.

The Employee agrees to notify the Company in writing immediately after the Employee makes a Disqualifying Disposition of any of the Shares acquired pursuant to the exercise of the Option. A Disqualifying Disposition is defined in Section 424(c) of the Code and includes any disposition (including any sale) of such Shares before the later of (a) two years after the date the Employee was granted the Option or (b) one year after the date the Employee acquired Shares by exercising the Option, except as otherwise provided in Section 424(c) of the Code. If the Employee has died before the Shares are sold, these holding period requirements do not apply and no Disqualifying Disposition can occur thereafter.

16. NOTICES.

Any notices required or permitted by the terms of this Agreement or the Plan shall be given by recognized courier service, facsimile, registered or certified mail, return receipt requested, addressed as follows:

If to the Company:

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

If to the Employee:

Employee
Street
City, State zip

or to such other address or addresses of which notice in the same manner has previously been given. Any such notice shall be deemed to have been given upon the earlier of receipt, one business day following delivery to a recognized courier service or three business days following mailing by registered or certified mail.

17. GOVERNING LAW.

This Agreement shall be construed and enforced in accordance with the law of the State of Delaware, without giving effect to the conflict of law principles thereof. For the purpose of litigating any dispute that arises under this Agreement, the parties hereby consent to exclusive jurisdiction in Utah and agree that such litigation shall be conducted in the courts of Salt Lake County, Utah or the federal courts of the United States for the District of Utah.

18. BENEFIT OF AGREEMENT.

Subject to the provisions of the Plan and the other provisions hereof, this Agreement shall be for the benefit of and shall be binding upon the heirs, executors, administrators, successors and assigns of the parties hereto.

19. ENTIRE AGREEMENT.

This Agreement, together with the Plan, embodies the entire agreement and understanding between the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement not expressly set forth in this Agreement shall affect or be used to interpret, change or restrict, the express terms and provisions of this Agreement, provided, however, in any event, this Agreement shall be subject to and governed by the Plan.

20. MODIFICATIONS AND AMENDMENTS.

The terms and provisions of this Agreement may be modified or amended as provided in the Plan.

21. WAIVERS AND CONSENTS.

Except as provided in the Plan, the terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by a written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

22. DATA PRIVACY.

By entering into this Agreement, the Employee: (i) authorizes the Company and each Affiliate, and any agent of the Company or any Affiliate administering the Plan or providing Plan recordkeeping services, to disclose to the Company or any of its Affiliates such information and data as the Company or any such Affiliate shall request in order to facilitate the grant of options and the administration of the Plan; (ii) waives any data privacy rights he or she may have with respect to such information; and (iii) authorizes the Company and each Affiliate to store and transmit such information in electronic form.

23. CONSENT OF SPOUSE.

If the Employee is married as of the date of this Agreement, the Employee's spouse shall execute a Consent of Spouse in the form of Exhibit B hereto, effective as of the date hereof. Such consent shall not be deemed to confer or convey to the spouse any rights in the Shares that do not otherwise exist by operation of law or the agreement of the parties. If the Employee marries or remarries subsequent to the date hereof, the Employee shall, not later than 60 days thereafter, obtain his or her new spouse's acknowledgement of and consent to the existence and binding effect of Section 12.2 of this Agreement by such spouse's executing and delivering a Consent of Spouse in the form of Exhibit B.

IN WITNESS WHEREOF, the Company has caused this Agreement to be executed by its duly authorized officer, and the Employee has hereunto set his or her hand, all as of the day and year first above written.

AMEDICA CORPORATION

By: _____
Name
Title

Name
Employee

NOTICE OF EXERCISE OF INCENTIVE STOCK OPTION

To: Amedica Corporation

Ladies and Gentlemen:

I hereby exercise my Incentive Stock Option to purchase _____ shares (the "Shares") of the common stock, \$.01 par value, of Amedica Corporation (the "Company"), at the exercise price of \$ per share, pursuant to and subject to the terms of that certain Incentive Stock Option Agreement between the undersigned and the Company dated [grant date].

I am aware that the Shares have not been registered under the Securities Act of 1933, as amended (the "1933 Act"), or any state securities laws. I understand that the reliance by the Company on exemptions under the 1933 Act is predicated in part upon the truth and accuracy of the statements by me in this Notice of Exercise.

I hereby represent and warrant that (1) I have been furnished with all information which I deem necessary to evaluate the merits and risks of the purchase of the Shares; (2) I have had the opportunity to ask questions concerning the Shares and the Company and all questions posed have been answered to my satisfaction; (3) I have been given the opportunity to obtain any additional information I deem necessary to verify the accuracy of any information obtained concerning the Shares and the Company; and (4) I have such knowledge and experience in financial and business matters that I am able to evaluate the merits and risks of purchasing the Shares and to make an informed investment decision relating thereto.

I hereby represent and warrant that I am purchasing the Shares for my own personal account for investment and not with a view to the sale or distribution of all or any part of the Shares.

I understand that because the Shares have not been registered under the 1933 Act, I must continue to bear the economic risk of the investment for an indefinite time and the Shares cannot be sold unless the Shares are subsequently registered under applicable federal and state securities laws or an exemption from such registration requirements is available.

I agree that I will in no event sell or distribute or otherwise dispose of all or any part of the Shares unless (1) there is an effective registration statement under the 1933 Act and applicable state securities laws covering any such transaction involving the Shares or (2) the Company receives an opinion of my legal counsel (concurrent in by legal counsel for the Company) stating that such transaction is exempt from registration or the Company otherwise satisfies itself that such transaction is exempt from registration.

I consent to the placing of a legend on my certificate for the Shares stating that the Shares have not been registered and setting forth the restrictions on transfer contemplated hereby and to the placing of a stop transfer order on the books of the Company and with any transfer agents against the Shares until the Shares may be legally resold or distributed without restriction.

I understand that at the present time Rule 144 of the Securities and Exchange Commission (the "SEC") may not be relied on for the resale or distribution of the Shares by me. I understand that the Company has no obligation to me to register the sale of the Shares with the SEC and has not represented to me that it will register the sale of the Shares.

I understand the terms and restrictions on the right to dispose of the Shares set forth in the 2003 Stock Option Plan and the Incentive Stock Option Agreement, both of which I have carefully reviewed. I consent to the placing of a legend on my certificate for the Shares referring to such restriction and the placing of stop transfer orders until the Shares may be transferred in accordance with the terms of such restrictions.

I have considered the Federal, state and local income tax implications of the exercise of my Option and the purchase and subsequent sale of the Shares.

I am paying the option exercise price for the Shares as follows:

Please issue the stock certificate for the Shares (check one):

to me; or

to me and _____, as joint tenants with right of survivorship and mail the certificate to me at the following address:

My mailing address for shareholder communications, if different from the address listed above is:

Very truly yours,

Employee (signature)

Print Name

Date

Social Security Number

CONSENT OF SPOUSE

I, _____, spouse of _____, acknowledge that I have read the Incentive Stock Option Agreement dated [grant date] (the "Agreement") to which this Consent is attached as Exhibit B and that I know its contents. Capitalized terms used and not defined herein shall have the meanings assigned to such terms in the Agreement. I am aware that by its provisions the Shares underlying the options granted to my spouse pursuant to the Agreement are subject to a right of repurchase in favor of Amedica Corporation (the "Company") and that, accordingly, the Company has the right to repurchase up to all of the Shares of which I may become possessed as a result of a gift from my spouse or a court decree and/or any property settlement in any domestic litigation.

I hereby agree that my interest, if any, in the Shares subject to the Agreement shall be irrevocably bound by the Agreement and further understand and agree that any community property interest I may have in the Shares shall be similarly bound by the Agreement.

I agree to the repurchase right described in Section 12.2 of the Agreement and I hereby consent to the repurchase of the Shares by the Company and the sale of the Shares by my spouse or my spouse's legal representative in accordance with the provisions of the Agreement. Further, as part of the consideration for the Agreement, I agree that at my death, if I have not disposed of any interest of mine in the Shares by an outright bequest of the Shares to my spouse, then the Company shall have the same rights against my legal representative to exercise its rights of repurchase with respect to any interest of mine in the Shares as it would have had pursuant to the Agreement if I had acquired the Shares pursuant to a court decree in domestic litigation.

I AM AWARE THAT THE LEGAL, FINANCIAL AND RELATED MATTERS CONTAINED IN THE AGREEMENT ARE COMPLEX AND THAT I AM FREE TO SEEK INDEPENDENT PROFESSIONAL GUIDANCE OR COUNSEL WITH RESPECT TO THIS CONSENT. I HAVE EITHER SOUGHT SUCH GUIDANCE OR COUNSEL OR DETERMINED AFTER REVIEWING THE AGREEMENT CAREFULLY THAT I WILL WAIVE SUCH RIGHT.

Dated as of the _____ day of _____, 200__.

Print name:

NON-QUALIFIED STOCK OPTION AGREEMENT**AMEDICA CORPORATION**

AGREEMENT made as of the [date], between Amedica Corporation (the "Company"), a Delaware corporation having a principal place of business in Salt Lake City, Utah, and [name and address] (the "Participant").

WHEREAS, the Company desires to grant to the Participant an Option to purchase shares of its common stock, \$.01 par value per share (the "Shares"), under and for the purposes set forth in the Company's 2003 Stock Option Plan (the "Plan"); and

WHEREAS, the Company and the Participant understand and agree that any terms used and not defined herein have the same meanings as in the Plan; and

WHEREAS, the Company and the Participant each intend that the Option granted herein shall be a Non-Qualified Option.

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth and for other good and valuable consideration, the parties hereto agree as follows:

1. GRANT OF OPTION.

The Company hereby grants to the Participant the right and option to purchase all or any part of an aggregate of [number] (XXX) Shares, on the terms and conditions and subject to all the limitations set forth herein, under United States securities and tax laws, and in the Plan, which is incorporated herein by reference. The Participant acknowledges receipt of a copy of the Plan.

2. PURCHASE PRICE.

The purchase price of the Shares covered by the Option shall be \$ per Share, subject to adjustment, as provided in the Plan, in the event of a stock split, reverse stock split or other events affecting the holders of Shares (the "Purchase Price"). Payment shall be made in accordance with Paragraph 7 of the Plan.

3. EXERCISABILITY OF OPTION.

Subject to the terms and conditions set forth in this Agreement and the Plan, the Option granted hereby shall become exercisable as follows:

After one year	up to number/4 (1/4 th grant amount) Shares
On next month and on the x th day of each following month through and including (month prior to 4 year anniversary)	an additional (remaining shares/36 months) Shares
On 4 year anniversary	an additional (remaining shares/36 months) Shares

The foregoing rights are cumulative and are subject to the other terms and conditions of this Agreement and the Plan.

Notwithstanding the foregoing, in the event of a Change of Control (as defined below), 100% of the Shares which would have vested in each vesting installment remaining under this Option will be vested for purposes of Section 16(B) of the Plan unless this Option has otherwise expired or been terminated pursuant to its terms or the terms of the Plan.

Change of Control means the occurrence of any of the following events:

- (i) Ownership. Any "Person" (as such term is used in Sections 13(d) and 14(d) of the Securities Exchange Act of 1934, as amended) becomes the "Beneficial Owner" (as defined in Rule 13d-3 under said Act), directly or indirectly, of securities of the Company representing 50% or more of the total voting power represented by the Company's then outstanding voting securities (excluding for this purpose the Company or its Affiliates or any employee benefit plan of the Company) pursuant to a transaction or a series of related transactions which the Board of Directors does not approve; or
- (ii) Merger/Sale of Assets. A merger or consolidation of the Company whether or not approved by the Board of Directors, other than a merger or consolidation which would result in the voting securities of the Company outstanding immediately prior thereto continuing to represent (either by remaining outstanding or by being converted into voting securities of the surviving entity or the parent of such corporation) at least 50% of the total

voting power represented by the voting securities of the Company or such surviving entity or parent of such corporation outstanding immediately after such merger or consolidation, or the stockholders of the Company approve an agreement for the sale or disposition by the Company of all or substantially all of the Company's assets; or

- (iii) Change in Board Composition. A change in the composition of the Board of Directors, as a result of which fewer than a majority of the directors are Incumbent Directors. "Incumbent Directors" shall mean directors who either (A) are directors of the Company as of August 8, 2003, or (B) are elected, or nominated for election, to the Board of Directors with the affirmative votes of at least a majority of the Incumbent Directors at the time of such election or nomination (but shall not include an individual whose election or nomination is in connection with an actual or threatened proxy contest relating to the election of directors to the Company.)

4. TERM OF OPTION.

The Option shall terminate ten years from the date of this Agreement, but shall be subject to earlier termination as provided herein or in the Plan.

If the Participant ceases to be an employee, director or consultant of the Company or of an Affiliate (for any reason other than the death or Disability of the Participant or termination of the Participant for "cause" (as defined in the Plan), the Option may be exercised, if it has not previously terminated, within the originally prescribed term of the Option, but may not be exercised thereafter. In such event, the Option shall be exercisable only to the extent that the Option has become exercisable and is in effect at the date of such cessation of employment, directorship or consultancy.

Notwithstanding the foregoing, in the event of the Participant's Disability or death following the termination of employment, directorship or consultancy, the Participant or the Participant's Survivors may continue to exercise the Option, but in no event after the date of expiration of the term of the Option.

In the event the Participant's employment, directorship or consultancy is terminated by the Company or an Affiliate for "cause" (as defined in the Plan), the Participant's right to exercise any unexercised portion of this Option shall cease immediately as of the time the Participant is notified his or her employment, directorship or consultancy is terminated for "cause", and this Option shall thereupon terminate. Notwithstanding anything herein to the contrary, if subsequent to the Participant's termination, but prior to the exercise of the Option, the Board of Directors of the Company determines that, either prior or subsequent to the Participant's termination, the Participant engaged in conduct which would constitute "cause," then the Participant shall immediately cease to have any right to exercise the Option and this Option shall thereupon terminate.

In the event of the Disability of the Participant, as determined in accordance with the Plan, the Option shall be exercisable within the term originally prescribed by the Option. In such event, the Option shall be exercisable:

- (a) to the extent that the Option has become exercisable but has not been exercised as of the date of Disability; and
- (b) in the event rights to exercise the Option accrue periodically, to the extent of a pro rata portion through the date of Disability of any additional vesting rights that would have accrued on the next vesting date had the Participant not become Disabled. The proration shall be based upon the number of days accrued in the current vesting period prior to the date of Disability.

In the event of the death of the Participant while an employee, director or consultant of the Company or of an Affiliate, the Option shall be exercisable by the Participant's Survivors within the originally prescribed term of the Option. In such event, the Option shall be exercisable:

- (x) to the extent that the Option has become exercisable but has not been exercised as of the date of death; and
- (y) in the event rights to exercise the Option accrue periodically, to the extent of a pro rata portion through the date of death of any additional vesting rights that would have accrued on the next vesting date had the Participant not died. The proration shall be based upon the number of days accrued in the current vesting period prior to the Participant's date of death.

5. METHOD OF EXERCISING OPTION.

Subject to the terms and conditions of this Agreement, the Option may be exercised by written notice to the Company or its designee, in substantially the form of Exhibit A attached hereto. Such notice shall state the number of Shares with respect to which the Option is being exercised and shall be signed by the person exercising the Option. Payment of the purchase price for such Shares shall be made in accordance with Paragraph 7 of the Plan. The Company shall deliver a certificate or certificates representing such Shares as soon as practicable after the notice shall be received, provided, however, that the Company may delay issuance of such Shares until completion of any action or obtaining of any consent, which the Company deems necessary under any applicable law (including, without limitation, state securities or "blue sky" laws). The certificate or certificates for the Shares as to which the Option shall have been so exercised shall be registered in the Company's share register in the name of the person so exercising the Option (or, if the Option shall be exercised by the Participant and if the Participant shall so request in the notice exercising the Option, shall be registered in the name of the Participant and another person jointly, with right of survivorship) and shall be delivered as provided above to or upon the written order of the person exercising the Option. In the event the Option shall be exercised, pursuant to Section 4 hereof, by any person other than the Participant, such notice shall be accompanied by appropriate proof of the right of such person to exercise the Option. All Shares that shall be purchased upon the exercise of the Option as provided herein shall be fully paid and nonassessable.

6. PARTIAL EXERCISE.

Exercise of this Option to the extent above stated may be made in part at any time and from time to time within the above limits, except that no fractional share shall be issued pursuant to this Option.

7. NON-ASSIGNABILITY.

The Option shall not be transferable by the Participant otherwise than by will or by the laws of descent and distribution or pursuant to a qualified domestic relations order as defined by the Code or Title I of the Employee Retirement Income Security Act or the rules thereunder. However, the Participant, with the approval of the Administrator, may transfer the Option for no consideration to or for the benefit of the Participant's Immediate Family (including, without limitation, to a trust for the benefit of the Participant's Immediate Family or to a partnership or limited liability company for one or more members of the Participant's Immediate Family), subject to such limits as the Administrator may establish, and the transferee shall remain subject to all the terms and conditions applicable to the Option prior to such transfer and each such transferee shall so acknowledge in writing as a condition precedent to the effectiveness of such transfer. The term "Immediate Family" shall mean the Participant's spouse, former spouse, parents, children, stepchildren, adoptive relationships, sisters, brothers, nieces, nephews and grandchildren (and, for this purpose, shall also include the Participant.) Except as provided in the previous sentence, the Option shall be exercisable, during the Participant's lifetime, only by the Participant (or, in the event of legal incapacity or incompetency, by the Participant's guardian or representative) and shall not be assigned, pledged or hypothecated in any way (whether by operation of law or otherwise) and shall not be subject to execution, attachment or similar process. Any attempted transfer, assignment, pledge, hypothecation or other disposition of the Option or of any rights granted hereunder contrary to the provisions of this Section 7, or the levy of any attachment or similar process upon the Option shall be null and void.

8. NO RIGHTS AS STOCKHOLDER UNTIL EXERCISE.

The Participant shall have no rights as a stockholder with respect to Shares subject to this Agreement until registration of the Shares in the Company's share register in the name of the Participant. Except as is expressly provided in the Plan with respect to certain changes in the capitalization of the Company, no adjustment shall be made for dividends or similar rights for which the record date is prior to the date of such registration.

9. ADJUSTMENTS.

The Plan contains provisions covering the treatment of Options in a number of contingencies such as stock splits and mergers. Provisions in the Plan for adjustment with respect to stock subject to Options and the related provisions with respect to successors to the business of the Company are hereby made applicable hereunder and are incorporated herein by

reference; provided, however, that in the event of a Change of Control (as defined in Section 3 above) 100% of the Shares which would have vested in each vesting installment remaining under this Option will be vested for purposes of Section 16(B) of the Plan.

10. TAXES.

The Participant acknowledges that upon exercise of the Option the Participant will be deemed to have taxable income measured by the difference between the then fair market value of the Shares received upon exercise and the price paid for such Shares pursuant to this Agreement. The Participant acknowledges that any income or other taxes due from him or her with respect to this Option or the Shares issuable pursuant to this Option shall be the Participant's responsibility.

The Participant agrees that the Company may withhold from the Participant's remuneration, if any, the minimum statutory amount of federal, state and local withholding taxes attributable to such amount that is considered compensation includable in such person's gross income. At the Company's discretion, the amount required to be withheld may be withheld in cash from such remuneration, or in kind from the Shares otherwise deliverable to the Participant on exercise of the Option. The Participant further agrees that, if the Company does not withhold an amount from the Participant's remuneration sufficient to satisfy the Company's income tax withholding obligation, the Participant will reimburse the Company on demand, in cash, for the amount under-withheld.

11. PURCHASE FOR INVESTMENT.

Unless the offering and sale of the Shares to be issued upon the particular exercise of the Option shall have been effectively registered under the Securities Act of 1933, as now in force or hereafter amended (the "1933 Act"), the Company shall be under no obligation to issue the Shares covered by such exercise unless and until the following conditions have been fulfilled:

- (a) The person(s) who exercise the Option shall warrant to the Company, at the time of such exercise, that such person(s) are acquiring such Shares for their own respective accounts, for investment, and not with a view to, or for sale in connection with, the distribution of any such Shares, in which event the person(s) acquiring such Shares shall be bound by the provisions of the following legend which shall be endorsed upon the certificate(s) evidencing the Shares issued pursuant to such exercise:

"The shares represented by this certificate have been taken for investment and they may not be sold or otherwise transferred by any person, including a pledgee, unless (1) either (a) a Registration Statement with respect to such shares shall be effective under the Securities Act of 1933, as amended, or (b) the Company shall have received an opinion of counsel satisfactory to it that an exemption from registration under such Act is then available, and (2) there shall have been compliance with all applicable state securities laws;" and

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- (b) If the Company so requires, the Company shall have received an opinion of its counsel that the Shares may be issued upon such particular exercise in compliance with the 1933 Act without registration thereunder. Without limiting the generality of the foregoing, the Company may delay issuance of the Shares until completion of any action or obtaining of any consent, which the Company deems necessary under any applicable law (including without limitation state securities or “blue sky” laws).

12. RESTRICTIONS ON TRANSFER OF SHARES.

12.1 The Shares acquired by the Participant pursuant to the exercise of the Option granted hereby shall not be transferred by the Participant except as permitted herein.

12.2 In the event of the Participant’s termination of service for any reason, the Company shall have the option, but not the obligation, to repurchase all or any part of the Shares issued pursuant to this Agreement (including, without limitation, Shares purchased after termination of employment, Disability or death in accordance with Section 4 hereof). In the event the Company does not, upon the termination of service of the Participant (as described above), exercise its option pursuant to this Section 12.2, the restrictions set forth in the balance of this Agreement shall not thereby lapse, and the Participant for himself or herself, his or her heirs, legatees, executors, administrators and other successors in interest, agrees that the Shares shall remain subject to such restrictions. The following provisions shall apply to a repurchase under this Section 12.2:

- (i) The per share repurchase price of the Shares to be sold to the Company upon exercise of its option under this Section 12.2 shall be equal to the Fair Market Value of each such Share determined in accordance with the Plan as of the date of termination of service; provided, however, in the event of a termination by the Company for “cause” (as defined in the Plan), the per share repurchase price of the Shares to be sold to the Company upon exercise of its option under this Section 12.2 shall be equal to \$.01.
- (ii) The Company’s option to repurchase the Participant’s Shares in the event of termination of service shall be valid for a period of 18 months commencing with the date of such termination of service.
- (iii) In the event the Company shall be entitled to and shall elect to exercise its option to repurchase the Participant’s Shares under this Section 12.2, the Company shall notify the Participant, or in case of death, his or her Survivor, in writing of its intent to repurchase the Shares. Such written notice may be mailed by the Company up to and including the last day of the time period provided for in Section 12.2(ii) for exercise of the Company’s option to repurchase.
- (iv) The written notice to the Participant shall specify the address at, and the time and date on, which payment of the repurchase price is to be made (the “Closing”). The date specified shall not be less than ten days nor more than 60 days from the

date of the mailing of the notice, and the Participant or his or her successor in interest with respect to the Shares shall have no further rights as the owner thereof from and after the date specified in the notice. At the Closing, the repurchase price shall be delivered to the Participant or his or her successor in interest and the Shares being purchased, duly endorsed for transfer, shall, to the extent that they are not then in the possession of the Company, be delivered to the Company by the Participant or his or her successor in interest.

12.3 It shall be a condition precedent to the validity of any sale or other transfer of any Shares by the Participant that the following restrictions be complied with (except as hereinafter otherwise provided):

- (i) No Shares owned by the Participant may be sold, pledged or otherwise transferred (including by gift or devise) to any person or entity, voluntarily, or by operation of law, except in accordance with the terms and conditions hereinafter set forth.
- (ii) Before selling or otherwise transferring all or part of the Shares, the Participant shall give written notice of such intention to the Company, which notice shall include the name of the proposed transferee, the proposed purchase price per share, the terms of payment of such purchase price and all other matters relating to such sale or transfer and shall be accompanied by a copy of the binding written agreement of the proposed transferee to purchase the Shares of the Participant. Such notice shall constitute a binding offer by the Participant to sell to the Company such number of the Shares then held by the Participant as are proposed to be sold in the notice at the monetary price per share designated in such notice, payable on the terms offered to the Participant by the proposed transferee (provided, however, that the Company shall not be required to meet any non-monetary terms of the proposed transfer, including, without limitation, delivery of other securities in exchange for the Shares proposed to be sold). The Company shall give written notice to the Participant as to whether such offer has been accepted in whole by the Company within sixty days after its receipt of written notice from the Participant. The Company may only accept such offer in whole and may not accept such offer in part. Such acceptance notice shall fix a time, location and date for the closing on such purchase ("Closing Date") which shall not be less than ten nor more than sixty days after the giving of the acceptance notice, provided, however, if any of the Shares to be sold pursuant to this Section 12.3 have been held by the Participant for less than six months, then the Closing Date may be extended by the Company until no more than ten days after such Shares have been held by the Participant for six months. The place for such closing shall be at the Company's principal office. At such closing, the Participant shall accept payment as set forth herein and shall deliver to the Company in exchange therefor certificates for the number of Shares stated in the notice accompanied by duly executed instruments of transfer.
- (iii) If the Company shall fail to accept any such offer, the Participant shall be free to sell all, but not less than all, of the Shares set forth in his or her notice to the

designated transferee at the price and terms designated in the Participant's notice, provided that (i) such sale is consummated within six months after the giving of notice by the Participant to the Company as aforesaid, and (ii) the transferee first agrees in writing to be bound by the provisions of this Section 12 so that such transferee (and all subsequent transferees) shall thereafter only be permitted to sell or transfer the Shares in accordance with the terms hereof. After the expiration of such six months, the provisions of this Section 12.3 shall again apply with respect to any proposed voluntary transfer of the Participant's Shares.

- (iv) The restrictions on transfer contained in this Section 12.3 shall not apply to (a) transfers by the Participant to his or her spouse or children or to a trust for the benefit of his or her spouse or children, (b) transfers by the Participant to his or her guardian or conservator, and (c) or transfers by the Participant, in the event of his or her death, to his or her executor(s) or administrator(s) or to trustee(s) under his or her will (collectively, "Permitted Transferees"); provided however, that in any such event the Shares so transferred in the hands of each such Permitted Transferee shall remain subject to this Agreement, and each such Permitted Transferee shall so acknowledge in writing as a condition precedent to the effectiveness of such transfer.
- (v) The provisions of this Section 12.3 may be waived by the Company. Any such waiver may be unconditional or based upon such conditions as the Company may impose.

12.4 In the event that the Participant or his or her successor in interest fails to deliver the Shares to be repurchased by the Company under this Agreement, the Company may elect (a) to establish a segregated account in the amount of the repurchase price, such account to be turned over to the Participant or his or her successor in interest upon delivery of such Shares, and (b) immediately to take such action as is appropriate to transfer record title of such Shares from the Participant to the Company and to treat the Participant and such Shares in all respects as if delivery of such Shares had been made as required by this Agreement. The Participant hereby irrevocably grants the Company a power of attorney which shall be coupled with an interest for the purpose of effectuating the preceding sentence.

12.5 If the Company shall pay a stock dividend or declare a stock split on or with respect to any of its Common Stock, or otherwise distribute securities of the Company to the holders of its Common Stock, the number of shares of stock or other securities of the Company issued with respect to the shares then subject to the restrictions contained in this Agreement shall be added to the Shares subject to the Company's rights to repurchase pursuant to this Agreement. If the Company shall distribute to its stockholders shares of stock of another corporation, the shares of stock of such other corporation, distributed with respect to the Shares then subject to the restrictions contained in this Agreement, shall be added to the Shares subject to the Company's rights to repurchase pursuant to this Agreement.

12.6 If the outstanding shares of Common Stock of the Company shall be subdivided into a greater number of shares or combined into a smaller number of shares, or in the event of a reclassification of the outstanding shares of Common Stock of the Company, or if the Company shall be a party to a merger, consolidation or capital reorganization, there shall be substituted for the Shares then subject to the restrictions contained in this Agreement such amount and kind of securities as are issued in such subdivision, combination, reclassification, merger, consolidation or capital reorganization in respect of the Shares subject immediately prior thereto to the Company's rights to repurchase pursuant to this Agreement.

12.7 The Company shall not be required to transfer any Shares on its books which shall have been sold, assigned or otherwise transferred in violation of this Agreement, or to treat as owner of such Shares, or to accord the right to vote as such owner or to pay dividends to, any person or organization to which any such Shares shall have been so sold, assigned or otherwise transferred, in violation of this Agreement.

12.8 The provisions of Sections 12.1, 12.2 and 12.3 shall terminate upon the effective date of the registration of the Shares pursuant to the Securities Exchange Act of 1934.

12.9 If, in connection with a registration statement filed by the Company pursuant to the 1933 Act, the Company or its underwriter so requests, the Participant will agree not to sell any Shares for a period not to exceed 180 days following the effectiveness of such registration.

12.10 The Participant acknowledges and agrees that neither the Company, its shareholders nor its directors and officers, has any duty or obligation to disclose to the Participant any material information regarding the business of the Company or affecting the value of the Shares before, at the time of, or following a termination of the employment of the Participant by the Company, including, without limitation, any information concerning plans for the Company to make a public offering of its securities or to be acquired by or merged with or into another firm or entity.

12.11 All certificates representing the Shares to be issued to the Participant pursuant to this Agreement shall have endorsed thereon a legend substantially as follows: "The shares represented by this certificate are subject to restrictions set forth in a Non-Qualified Stock Option Agreement dated [grant date] with this Company, a copy of which Agreement is available for inspection at the offices of the Company or will be made available upon request."

13. NO OBLIGATION TO MAINTAIN RELATIONSHIP.

The Company is not by the Plan or this Option obligated to continue the Participant as an employee, director or consultant of the Company or an Affiliate. The Participant acknowledges: (i) that the Plan is discretionary in nature and may be suspended or terminated by the Company at any time; (ii) that the grant of the Option is a one-time benefit which does not create any contractual or other right to receive future grants of options, or benefits in lieu of options; (iii) that all determinations with respect to any such future grants, including, but not limited to, the times when options shall be granted, the number of shares subject to each option, the option price, and the time or times when each option shall be exercisable, will be at the sole discretion of the Company; (iv) that the Participant's participation in the Plan is voluntary; (v) that the value of the Option is an extraordinary item of compensation which is outside the scope of the

Participant's employment contract, if any; and (vi) that the Option is not part of normal or expected compensation for purposes of calculating any severance, resignation, redundancy, end of service payments, bonuses, long-service awards, pension or retirement benefits or similar payments.

14. NOTICES.

Any notices required or permitted by the terms of this Agreement or the Plan shall be given by recognized courier service, facsimile, registered or certified mail, return receipt requested, addressed as follows:

If to the Company:

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

If to the Participant:

[Name]
[Address]

or to such other address or addresses of which notice in the same manner has previously been given. Any such notice shall be deemed to have been given upon the earlier of receipt, one business day following delivery to a recognized courier service or three business days following mailing by registered or certified mail.

15. GOVERNING LAW.

This Agreement shall be construed and enforced in accordance with the law of the State of Delaware, without giving effect to the conflict of law principles thereof. For the purpose of litigating any dispute that arises under this Agreement, the parties hereby consent to exclusive jurisdiction in Utah and agree that such litigation shall be conducted in the courts of Salt Lake County, Utah or the federal courts of the United States for the District of Utah.

16. BENEFIT OF AGREEMENT.

Subject to the provisions of the Plan and the other provisions hereof, this Agreement shall be for the benefit of and shall be binding upon the heirs, executors, administrators, successors and assigns of the parties hereto.

17. ENTIRE AGREEMENT.

This Agreement, together with the Plan, embodies the entire agreement and understanding between the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No

statement, representation, warranty, covenant or agreement not expressly set forth in this Agreement shall affect or be used to interpret, change or restrict, the express terms and provisions of this Agreement, provided, however, in any event, this Agreement shall be subject to and governed by the Plan.

18. MODIFICATIONS AND AMENDMENTS.

The terms and provisions of this Agreement may be modified or amended as provided in the Plan.

19. WAIVERS AND CONSENTS.

Except as provided in the Plan, the terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by a written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

20. DATA PRIVACY.

By entering into this Agreement, the Participant: (i) authorizes the Company and each Affiliate, and any agent of the Company or any Affiliate administering the Plan or providing Plan record keeping services, to disclose to the Company or any of its Affiliates such information and data as the Company or any such Affiliate shall request in order to facilitate the grant of options and the administration of the Plan; (ii) waives any data privacy rights he or she may have with respect to such information; and (iii) authorizes the Company and each Affiliate to store and transmit such information in electronic form.

21. CONSENT OF SPOUSE.

If the Participant is married as of the date of this Agreement, the Participant's spouse shall execute a Consent of Spouse in the form of Exhibit B hereto, effective as of the date hereof. Such consent shall not be deemed to confer or convey to the spouse any rights in the Shares that do not otherwise exist by operation of law or the agreement of the parties. If the Participant marries or remarries subsequent to the date hereof, the Participant shall, not later than 60 days thereafter, obtain his or her new spouse's acknowledgement of and consent to the existence and binding effect of Section 12.2 of this Agreement by such spouse's executing and delivering a Consent of Spouse in the form of Exhibit B.

IN WITNESS WHEREOF, the Company has caused this Agreement to be executed by its duly authorized officer, and the Participant has hereunto set his or her hand, all as of the day and year first above written.

AMEDICA CORPORATION

By: _____

Name of Amedica Officer

Title

Name

NOTICE OF EXERCISE OF NON-QUALIFIED STOCK OPTION

To: Amedica Corporation

Ladies and Gentlemen:

I hereby exercise my Non-Qualified Stock Option to purchase [number] shares (the "Shares") of the common stock, \$.01 par value, of Amedica Corporation (the "Company"), at the exercise price of \$ per share, pursuant to and subject to the terms of that certain Non-Qualified Stock Option Agreement between the undersigned and the Company dated [grant date].

I am aware that the Shares have not been registered under the Securities Act of 1933, as amended (the "1933 Act"), or any state securities laws. I understand that the reliance by the Company on exemptions under the 1933 Act is predicated in part upon the truth and accuracy of the statements by me in this Notice of Exercise.

I hereby represent and warrant that (1) I have been furnished with all information which I deem necessary to evaluate the merits and risks of the purchase of the Shares; (2) I have had the opportunity to ask questions concerning the Shares and the Company and all questions posed have been answered to my satisfaction; (3) I have been given the opportunity to obtain any additional information I deem necessary to verify the accuracy of any information obtained concerning the Shares and the Company; and (4) I have such knowledge and experience in financial and business matters that I am able to evaluate the merits and risks of purchasing the Shares and to make an informed investment decision relating thereto.

I hereby represent and warrant that I am purchasing the Shares for my own personal account for investment and not with a view to the sale or distribution of all or any part of the Shares.

I understand that because the Shares have not been registered under the 1933 Act, I must continue to bear the economic risk of the investment for an indefinite time and the Shares cannot be sold unless the Shares are subsequently registered under applicable federal and state securities laws or an exemption from such registration requirements is available.

I agree that I will in no event sell or distribute or otherwise dispose of all or any part of the Shares unless (1) there is an effective registration statement under the 1933 Act and applicable state securities laws covering any such transaction involving the Shares or (2) the Company receives an opinion of my legal counsel (concurrent in by legal counsel for the Company) stating that such transaction is exempt from registration or the Company otherwise satisfies itself that such transaction is exempt from registration.

I consent to the placing of a legend on my certificate for the Shares stating that the Shares have not been registered and setting forth the restrictions on transfer contemplated hereby and to the placing of a stop transfer order on the books of the Company and with any transfer agents against the Shares until the Shares may be legally resold or distributed without restriction.

I understand that at the present time Rule 144 of the Securities and Exchange Commission (the "SEC") may not be relied on for the resale or distribution of the Shares by me. I understand that the Company has no obligation to me to register the sale of the Shares with the SEC and has not represented to me that it will register the sale of the Shares.

I understand the terms and restrictions on the right to dispose of the Shares set forth in the 2003 Stock Option Plan and the Non-Qualified Stock Option Agreement, both of which I have carefully reviewed. I consent to the placing of a legend on my certificate for the Shares referring to such restriction and the placing of stop transfer orders until the Shares may be transferred in accordance with the terms of such restrictions.

I have considered the Federal, state and local income tax implications of the exercise of my Option and the purchase and subsequent sale of the Shares.

I am paying the option exercise price for the Shares as follows:

Please issue the stock certificate for the Shares (check one):

- to me; or
- to me and _____, as joint tenants with right of survivorship and mail the certificate to me at the following address:

My mailing address for shareholder communications, if different from the address listed above is:

Very truly yours,

Participant (signature)

Print Name

Date

Social Security Number

CONSENT OF SPOUSE

I, _____, spouse of _____, acknowledge that I have read the Non-Qualified Stock Option Agreement dated as of [grant date] (the "Agreement") to which this Consent is attached as Exhibit B and that I know its contents. Capitalized terms used and not defined herein shall have the meanings assigned to such terms in the Agreement. I am aware that by its provisions the Shares underlying the options granted to my spouse pursuant to the Agreement are subject to a right of repurchase in favor of Amedica Corporation (the "Company") and that, accordingly, the Company has the right to repurchase up to all of the Shares of which I may become possessed as a result of a gift from my spouse or a court decree and/or any property settlement in any domestic litigation.

I hereby agree that my interest, if any, in the Shares subject to the Agreement shall be irrevocably bound by the Agreement and further understand and agree that any community property interest I may have in the Shares shall be similarly bound by the Agreement.

I agree to the repurchase right described in Section 12.2 of the Agreement and I hereby consent to the repurchase of the Shares by the Company and the sale of the Shares by my spouse or my spouse's legal representative in accordance with the provisions of the Agreement. Further, as part of the consideration for the Agreement, I agree that at my death, if I have not disposed of any interest of mine in the Shares by an outright bequest of the Shares to my spouse, then the Company shall have the same rights against my legal representative to exercise its rights of repurchase with respect to any interest of mine in the Shares as it would have had pursuant to the Agreement if I had acquired the Shares pursuant to a court decree in domestic litigation.

I AM AWARE THAT THE LEGAL, FINANCIAL AND RELATED MATTERS CONTAINED IN THE AGREEMENT ARE COMPLEX AND THAT I AM FREE TO SEEK INDEPENDENT PROFESSIONAL GUIDANCE OR COUNSEL WITH RESPECT TO THIS CONSENT. I HAVE EITHER SOUGHT SUCH GUIDANCE OR COUNSEL OR DETERMINED AFTER REVIEWING THE AGREEMENT CAREFULLY THAT I WILL WAIVE SUCH RIGHT.

Dated as of the _____ day of _____, 200__.

Print name:



January 5, 2007

Mr. Eugene B. Jones

Dear Gene:

The purpose of this letter agreement (the "Agreement") is to confirm the terms regarding your separation of employment from Amedica Corporation, a Delaware corporation (the "Company"). As more fully set forth below, the Company desires to provide you with severance pay in exchange for certain agreements by you.

1. Separation of Employment. You acknowledge that, pursuant to your retirement, your employment with the Company will terminate effective Friday, January 5, 2007 (the "Separation Date"). You acknowledge that from and after the Separation Date, you shall have no authority and shall not represent yourself as an employee or agent of the Company. This Agreement shall become effective (the "Effective Date") on the 8th day following your acceptance of it as provided below.

2. Severance Pay/Options. In exchange for the mutual covenants set forth in this Agreement,

(i) the Company is providing you with a lump sum payment of \$95,566, less all applicable federal, state, local and other employment-related deductions; you acknowledge that such payment was advanced to you prior to December 31, 2006 and the execution of this Agreement, but you have agreed and do agree that should you not accept or rescind your acceptance of this agreement, as you may under the provisions set forth below, you thereafter shall immediately refund such payment to the Company at the conclusion of the time in which you may accept this Agreement (or on rejection should you reject it prior to such time) or, should you accept and later rescind, contemporaneously with your notice of rescission;

(ii) all stock options previously granted to you by the Company which are currently in effect (collectively, the "Existing Stock Options") shall terminate and be of no further force or effect immediately upon the grant to you by the Company of a nonqualified stock option exercisable for up to 65,000 shares of the Company's common stock (the "New Stock Option"). The New Stock Option shall expire not later than June 30, 2014, and shall have an exercise price per share equal to the fair market value of a share of the Company's common stock on the date of grant. The grant to you of the New Stock Option is subject to the approval of the Company's Board of Directors and unless and until the Board acts, the Existing Stock Options shall remain in full force and effect in accordance with their respective terms.

You acknowledge and agree that the Severance Pay provided in this Agreement are not otherwise due or owing to you under any Company employment agreement (oral or written) or Company policy or practice, and that this Severance Pay to be provided to you is not intended to, and shall not constitute, a severance plan, and shall confer no benefit on anyone other than the parties hereto. You further acknowledge that except for the specific financial consideration set forth in this Agreement, you are not and shall not in the future be entitled to any other compensation including, without limitation, wages, bonuses, vacation pay, holiday pay or any other form of compensation or benefit.

3. Unemployment Benefits. The Company agrees that it will not contest any claim for unemployment benefits by you with the State of Utah. The Company, of course, shall not be required to falsify any information.

4. Cooperation. You agree that both during and at any time after your employment, you shall cooperate fully with the Company in connection with any matter or event relating to your employment or events that occurred during your employment, including, without limitation, in the defense or prosecution of any claims or actions now in existence or which may be brought or threatened in the future against or on behalf of the Company, including any claims or actions against its affiliates and its and their officers and employees. Your cooperation in connection with such matters, actions and claims shall include, without limitation, being available, upon reasonable notice to meet with the Company regarding matters in which you have been involved, and any contract matters or audits; to prepare for, attend and participate in any proceeding (including, without limitation, depositions, consultation, discovery or trial); to provide affidavits; to assist with any audit, inspection, proceeding or other inquiry; and to act as a witness in connection with any litigation or other legal proceeding affecting the Company. You further agree that should you be contacted (directly or indirectly) by any person or entity (for example, by any party representing an individual or entity) adverse to the Company, you shall promptly notify me or Reyn Gallacher. You shall be reimbursed for any reasonable costs and expenses incurred in connection with providing such cooperation under this section.

5. Additional Covenants by You. You expressly acknowledge and agree to the following:

- (i) that prior to the termination of your employment, you shall return to the Company all Company documents (and any copies thereof) and property, and that you will abide by any and all common law and/or statutory obligations relating to protection and nondisclosure of the Company's trade secrets and/or confidential and proprietary documents and information;
- (ii) that all information relating in any way to the negotiation of this Agreement, including the terms and amount of financial consideration provided for in this Agreement, shall be held confidential by you and shall not be publicized or disclosed to any person (other than an immediate family member, legal counsel or financial advisor, provided that any such individual to whom disclosure is made agrees to be bound by these confidentiality obligations), business entity or government agency (except as mandated by state or federal law);

(iii) that you will not make any statements that are professionally or personally disparaging about, or adverse to, the interests of the Company (and its officers, directors and managers) including, but not limited to, any statements that disparage any such person, product, service, finances, financial condition, capability or any other aspect of the business of the Company, and that you will not engage in any conduct which is intended to harm professionally or personally the reputation of the Company (and its officers, directors and managers);

(iv) that the breach of any of the foregoing covenants by you shall constitute a material breach of this Agreement and shall relieve the Company of any further obligations hereunder and, in addition to any other legal or equitable remedy available to the Company, shall entitle the Company to recover any Severance Pay already paid to you pursuant to Section 2 of this Agreement.

6. Release of Claims. You hereby agree and acknowledge that by signing this Agreement and accepting the Severance Pay to be provided to you, and other good and valuable consideration provided for in this Agreement, you, except as expressly provided below, are waiving and releasing your right to assert any form of legal claim against the Company^{1/} whatsoever for any alleged action, inaction or circumstance existing or arising from the beginning of time through the Effective Date. Your waiver and release herein, except as expressly provided below, is intended to bar any form of legal claim, charge, complaint or any other form of action (jointly referred to as "Claims") against the Company seeking any form of relief including, without limitation, equitable relief (whether declaratory, injunctive or otherwise), the recovery of any damages or any other form of monetary recovery whatsoever (including, without limitation, back pay, front pay, compensatory damages, emotional distress damages, punitive damages, attorneys fees and any other costs) against the Company, for any alleged action, inaction or circumstance existing or arising through the Effective Date.

Without limiting the foregoing general waiver and release, you, except as expressly provided below, specifically waive and release the Company from any Claim arising from or related to your employment relationship with the Company or the termination thereof, including, without limitation:

^{1/} For the purposes of this section, the parties agree that the term "Company" shall include Amedica Corporation, its divisions, affiliates and subsidiaries, and its and their respective officers, directors, employees, attorneys, agents and assigns.

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- Claims under any state or federal discrimination, fair employment practices or other employment related statute, regulation or executive order (as they may have been amended through the Effective Date) prohibiting discrimination or harassment based upon any protected status including, without limitation, race, national origin, age, gender, marital status, disability, veteran status or sexual orientation. Without limitation, specifically included in this paragraph are any Claims arising under the federal Age Discrimination in Employment Act, the Older Workers Benefit Protection Act, the Civil Rights Acts of 1866 and 1871, Title VII of the Civil Rights Act of 1964, the Civil Rights Act of 1991, the Equal Pay Act, the Americans With Disabilities Act and any similar or other state statute.
 - Claims under any other state or federal employment related statute, regulation or executive order (as they may have been amended through the Effective Date) relating to wages, hours or any other terms and conditions of employment. Without limitation, specifically included in this paragraph are any Claims arising under the Fair Labor Standards Act, the National Labor Relations Act, the Employee Retirement Income Security Act of 1974, the Consolidated Omnibus Budget Reconciliation Act of 1985 (COBRA) and any similar or other state statute.
 - Claims under any state or federal common law theory including, without limitation, wrongful discharge, breach of express or implied contract, promissory estoppel, unjust enrichment, breach of a covenant of good faith and fair dealing, violation of public policy, defamation, interference with contractual relations, intentional or negligent infliction of emotional distress, invasion of privacy, misrepresentation, deceit, fraud or negligence.
 - Any other Claim arising under local, state or federal law.

You explicitly acknowledge that because you are over forty (40) years of age, you have specific rights under the Older Workers Benefits Protection Act (“OWBPA”), which prohibits discrimination on the basis of age, and that the releases set forth in this section are intended to release any right that you may have to file a claim against the Company alleging discrimination on the basis of age.

Notwithstanding the foregoing, this section does not:

- release the Company from any obligation expressly set forth in this Agreement or from any obligation, including without limitation obligations under the Workers Compensation laws, which as a matter of law cannot be released;
- prohibit you from filing a charge with the Equal Employment Opportunity Commission (“EEOC”);
- prohibit you from participating in an investigation or proceeding by the EEOC or any comparable state or local agency; or

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- prohibit you from challenging or seeking a determination in good faith of the validity of this release or waiver under the Age Discrimination in Employment Act and does not impose any condition precedent, penalty, or costs for doing so unless specifically authorized by federal law.

Your waiver and release, however, are intended to be a complete bar to any recovery or personal benefit by or to you with respect to any claim whatsoever, including those raised through a charge with the EEOC, except those which, as a matter of law, cannot be released. In the event that you successfully challenge the validity of the release with respect to the Age Discrimination in Employment Act, the Company or any affected party sought to be released hereunder may seek recovery from you of all amounts paid pursuant to this Agreement. Nothing in this Agreement, however, shall limit the right of the Company or any affected party sought to be released hereunder to seek immediate dismissal of a charge on the basis that your signing of this Agreement constitutes a full release of any rights you might otherwise have to pursue the charge.

You acknowledge and agree that, but for providing this waiver and release, you would not be receiving the Severance Pay being provided to you under the terms of this Agreement.

It is the Company's desire and intent to make certain that you fully understand the provisions and effects of this Agreement. To that end, you have been encouraged and given the opportunity to consult with legal counsel for the purpose of reviewing the terms of this Agreement. Consistent with the provisions of OWBPA, the Company is providing you with twenty-one (21) days in which to consider and accept the terms of this Agreement by signing below and returning it to Ashok Khandkar, Amedica Corporation, 615 Arapeen Drive, Suite 302, Salt Lake City, UT 84108. In addition, you must rescind your assent to this Agreement within seven (7) days after you sign it. To do so, you must deliver a notice of rescission to Ashok Khandkar. To be effective, such rescission must be hand delivered or postmarked within the seven (7) day period and sent by certified mail, return receipt requested, to Ashok Khandkar, Amedica Corporation, 615 Arapeen Drive, Suite 302, Salt Lake City, UT 84108,

7. Entire Agreement/Modification/Waiver/Choice of Law/Enforceability/Jury Waiver. You acknowledge and agree that, with the exception of your Confidentiality and Assignment of Inventions Agreement, your so called "lock-up" agreement dated May 26, 2006, the Amended and Restated Registration Rights Agreement among the Company and certain of its securityholders, any restrictive covenants relating to your employment, this Agreement supersedes any and all prior or contemporaneous oral and/or written agreements between you and the Company, and sets forth the entire agreement between you and the Company. No variations or modifications hereof shall be deemed valid unless reduced to writing and signed by the parties hereto. The failure of the Company to seek enforcement of any provision of this Agreement in any instance or for any period of time shall not be construed as a waiver of such provision or the Company's right to seek enforcement of such provision in the future. This Agreement shall be deemed to have been made in the State of Utah, shall take effect as an instrument under seal within Utah, and shall be governed by and construed in accordance with the laws of the State of Utah, without giving effect to conflict of law principles. You agree that any action, demand, claim or counterclaim relating to the terms and provisions of this Agreement, or to its formation

or breach, shall be commenced in Salt Lake City, Utah in a court of competent jurisdiction, and you further acknowledge that venue for such actions shall lie exclusively in Utah and that material witnesses and documents would be located in Utah. Both parties hereby waive and renounce in advance any right to a trial by jury in connection with such legal action. The provisions of this Agreement are severable, and if for any reason any part hereof shall be found to be unenforceable, the remaining provisions shall be enforced in full.

By executing this Agreement, you are acknowledging that you have been afforded sufficient time to understand the terms and effects of this Agreement, that your agreements and obligations hereunder are made voluntarily, knowingly and without duress, and that neither the Company nor its agents or representatives have made any representations inconsistent with the provisions of this Agreement.

This Agreement may be signed on one or more copies, each of which when signed will be deemed to be an original, and all of which together will constitute one and the same Agreement.

If the foregoing correctly sets forth our understanding, please sign, date and return the enclosed copy of this Agreement to me at the Company within twenty-one (21) days.

Very truly yours,

AMEDICA CORPORATION

By: /s/ Ashok Khandkar

Ashok Khandkar,
Chief Executive Officer

Dated: January 5, 2007

Confirmed and Agreed:

/s/ Eugene B. Jones

Eugene B. Jones

Dated: January 5, 2007

CREATION CAPITAL LLC

November 14, 2005

PERSONAL & CONFIDENTIAL

Mr. Ashok Khandkar
Chief Executive Officer
Amedica Corporation
615 Arapeen
Suite 302
Salt Lake City, Utah 84108

Dear Ashok:

This letter will confirm the agreement under which Amedica Corporation (the "Company") engages Creation Capital LLC ("Creation Capital") as the exclusive placement agent for the Company.

1. Private Placement Engagement

A. Scope of Engagement. The Company hereby engages Creation Capital as the Company's exclusive placement agent during the term of this agreement (the "Agreement") in connection with the proposed private placement of securities of the Company (the "Offering"). Creation Capital hereby accepts such engagement on the terms and conditions set forth herein. It is currently contemplated that the Offering will be structured as a best-efforts private offering of a minimum of \$3,000,000 and a maximum of \$14,000,000 of Series C Convertible Preferred Stock of the Company (the "Stock") at a price of \$2.00 per share (the "Offering Price"), plus a 20% (\$2,800,000) over-allotment option to Creation Capital. The Stock will have the terms substantially as set forth in Appendix I, attached hereto. However, as you know, the final terms of the Offering may be negotiated between the Company and the investors who purchase the Stock in the Offering, and will be set forth in a definitive agreement to be executed by the Company and the investors. This Agreement shall not give rise to any commitment by Creation Capital to purchase any of the Stock, and Creation Capital shall have no authority to bind the Company with respect to the sale of the Stock.

B. Services. Creation Capital will perform the following services in connection with the Offering:

a) review the Company's current business operations, prospects and projected financial results and such other matters as Creation Capital deems relevant to enable it to render financial advice and assistance to the Company;

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

- b) assist the Company and its counsel in the preparation and review of a private placement memorandum and related documents;
- c) identify and contact potential investors; and
- d) establish an appropriate escrow account to facilitate the closing(s) of sale(s) of the Stock pursuant to the Offering.

C. Term of Engagement. The term of this Agreement shall extend until the earlier of (i) sale of all of the Stock pursuant to the Offering or (ii) 90 days from the date of Creation Capital's receipt of the final printed Memorandum (as defined below), which period shall be automatically extended until the closing with respect to any subscriptions for investment that have been accepted by the Company prior to such date. The exclusive period may be extended by mutual consent. Upon expiration of this Agreement, any accrued fees and unreimbursed expenses will be immediately due and payable by the Company to Creation Capital. If the Company terminates the Offering prior to the end of the period set forth in the first sentence of this section, does not accept subscriptions from investors that have been properly entered into, or otherwise violates any of its obligations under this Agreement, and subsequently at any time during the one (1) year period following the expiration or termination of the Offering the Company completes a private placement or sells equity or debt securities (other than pursuant to a public offering, to officers and directors of the Company, in connection with the hiring or compensation of employees, consultants or directors, or in connection with a strategic alliance or similar agreement), then Creation Capital shall be entitled to receive, and the Company shall be obligated to pay to Creation Capital, the fees (both the cash and warrant components) set forth in Sections 2(A) and 2(B) below with respect to the securities sold in such offerings or sales.

D. Offering Memorandum. The Offering will be made by means of a private placement memorandum (the "Memorandum"), to be prepared and approved by the Company and its counsel. The Company will also be responsible for updating and supplementing the Memorandum prior to any sale of the Stock pursuant to the Offering to reflect developments and changes affecting the Company. The Memorandum and any amendment or supplement thereto will be in a form reasonably acceptable to Creation Capital and its counsel. The Company agrees that Creation Capital will rely, without independent verification, on the information contained in the Memorandum and shall have no responsibility for any information contained therein. All other documents and materials to be used for circulation to investors (collectively, "Investor Materials") in connection with the Offering will be provided by the Company to Creation Capital in advance, and no such documents or materials will be provided to investors without Creation Capital's prior approval. Creation Capital shall not provide to investors any information about the Company other than Investor Materials that both Creation Capital and the Company have approved. Except as provided in the next sentence, the Memorandum and all Investor Materials shall be the sole responsibility of the Company. Subject to the Projections Qualification (defined below), neither the Memorandum nor any of the Investor Materials shall contain an untrue statement of a material fact or omit to state a material fact necessary to make the statements therein, in light of the circumstances under which they were made, not misleading, except that the Company shall not be responsible for any information

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concerning Creation Capital supplied by Creation Capital in writing to the Company for inclusion therein, which information shall be governed by the same standard but for which Creation Capital shall be responsible.

E. Compliance with Securities Laws. Each of the Company and Creation Capital agrees to conduct the Offering in a manner intended to qualify for the exemption from the registration requirements of the Securities Act of 1933, as amended (the “Securities Act”), available pursuant to Regulation D thereunder. Each of the Company and Creation Capital agrees to limit offers to sell, and solicitations of offers to buy, the Stock in connection with the Offering to persons reasonably believed by it to be “accredited investors” within the meaning of Rule 501(a) under the Securities Act. Each of the Company and Creation Capital agrees that it will not engage in any form of general solicitation or general advertising in connection with the Offering within the meaning of Rule 502(c) under the Securities Act. Each of the Company and Creation Capital agrees to conduct the Offering in a manner intended to comply with the registration or qualification requirements, or available exemptions therefrom, under applicable state “blue sky” laws and applicable securities laws of other jurisdictions in which the Company and Creation Capital agree that offers and sales will be made. None of the Company, Creation Capital nor any person acting on their respective behalf has, prior to the date hereof, taken any action which, if taken after the date hereof, would constitute a violation of the preceding four sentences. The Company shall be responsible for compliance with the filing requirements of the securities laws of states and other jurisdictions and in that respect shall provide to Creation Capital a “blue sky” memorandum and shall make all filings and take all other actions as are required in connection with compliance with such laws. The Company will not, for a period of six (6) months following the final closing date under the Offering, offer for sale or sell securities in a transaction the primary purpose of which is to raise capital for the Company unless, in the opinion of the Company’s legal counsel, concurred with by Creation Capital’s legal counsel, such offer or sale does not jeopardize the availability of exemptions from the registration and the qualification requirements under applicable federal securities laws, state “blue sky” laws or the securities laws of any other jurisdiction with respect to the Offering.

2. Fees and Expenses

A. Placement Agent Fee. Upon execution of this agreement, the Company will pay Creation Capital a refundable retainer of \$75,000. This retainer will be applied to the fee to be paid to Creation Capital at the first closing of the sale of the Stock as described below. From time to time, upon the closing of the sale of the Stock, the Company agrees to pay Creation Capital a placement agent fee equal to nine percent (9%) of the gross proceeds of all sales of Stock pursuant to the Offering. Fees payable pursuant to this section shall be due whether or not the investors were introduced to or contacted on behalf of the Company by Creation Capital; provided, however, the foregoing fees shall not apply to any investment by (i) any officer of the Company or member of the Company’s Board of Directors, or (ii) any entity listed on Exhibit B hereto (all such investors described in clauses (i) and (ii) being hereinafter referred to as “Company-Related Investors”). Such fees shall be payable in cash; and provided, further, that Creation Capital shall, in its sole discretion, have the right to elect to receive any or all of the placement agent fees in shares of Stock, the value of which shares will be calculated on the basis of the Offering Price. Creation Capital shall be entitled, but shall not be obligated, to purchase Stock sold in the Offering on the same terms and conditions as the other purchasers in the Offering.

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B. Warrants. From time to time, upon the closing of the sale of Stock, Creation Capital shall receive (in addition to the fee set forth in Section 2.A. above) warrants to purchase a number of shares of Stock equal to fifteen percent (15%) of the total number of the shares of Stock sold in the Offering; provided, however, the foregoing warrant coverage shall not apply to any investment by any Company-Related Investors. The warrants (a) will be exercisable for a period of seven-years from the date of the final closing of the sale of Stock pursuant to the Offering, (b) will have an exercise price equal to 110% of the price per share of Stock in the Offering and (c) will be exercisable on the earlier of (i) one (1) year from the date of final sale of shares of Stock pursuant to the Offering, (ii) the consummation of a registered public offering or (iii) the consummation of a merger of the Company with or into another entity, acquisition of the outstanding capital stock of the Company, sale of the Company's assets, or recapitalization as a result of which the Company's stockholders immediately prior to such transaction hold less than 50% of the voting power of the surviving corporation immediately after such transaction, or more than 50% of the assets of the Company are transferred or sold. The warrants shall be issued pursuant to a definitive warrant agreement containing customary provisions including registration rights, anti-dilution provisions which comply with NASD or other applicable exchange or regulatory requirements, and a cashless exercise provision.

C. Expenses. The Company agrees to pay Creation Capital (i) upon each closing of the sale of Stock one percent (1%) of the amount of gross proceeds from the sale of Stock pursuant to the Offering for non-accountable expenses, up to a maximum of \$140,000, plus (ii) reasonable fees and expenses of legal counsel up to \$35,000, \$20,000 of which shall be payable to Creation Capital's counsel as a retainer upon execution of this Agreement. The Company agrees to pay up front all reasonable expenses incurred as a result of marketing purposes, including the printing of the Memorandum and the Investor Materials, renting of facilities for any presentations, and travel expenses, it being agreed that any such expenses incurred by Creation Capital in conducting the Offering shall be creditable against the \$140,000 above unless such expenses relate to the Company's travel and participation in the Offering, which expenses shall be entirely borne by the Company.

D. Related Transactions. (a) To the extent that any purchaser (or its affiliate) in the Offering (other than any current stockholder of the Company, except for purposes of this clause only, any investor in Series A Convertible Preferred Stock and Series B Convertible Preferred Stock of the Company), purchases any other equity or debt securities of the Company from the Company in a private sale during the twelve (12) month period following the closing of such purchaser's last purchase of Stock in the Offering, Creation Capital shall be entitled to receive with respect to such subsequent sale the fees (both the cash and warrant components) as set forth in Sections 2.A. and 2.B. hereof. Notwithstanding the foregoing, Creation Capital shall not be entitled to receive any fees pursuant to this Section 2.D. with respect to sales of securities by the Company to any Company-Related Investor, except in the event of a Change of Control (as defined below).

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(b) If the Company receives an Acquisition Proposal, a transaction pursuant to such Acquisition Proposal is completed at any time prior to a registered public offering of the securities of the Company and Creation raises at least \$7,000,000 in the Offering, then Creation Capital will be entitled to a "Transaction Fee" as set forth below. An "Acquisition Proposal" shall be any proposal to acquire capital stock of the Company, directly or indirectly, any merger proposal, tender offer, recapitalization or asset sale pursuant to which the Company's stockholders immediately prior to such transaction hold less than 50% of the voting power of the surviving corporation immediately after such transaction or the majority of the assets of the Company are transferred or sold. A "Change of Control" shall mean any consummation of the Acquisition Proposal.

If a Change of Control is completed and Creation raises at least \$7,000,000 in the Offering, Creation Capital shall be paid a "Transaction Fee" equal to (i) three percent (3%) of the Aggregate Transaction Value if the Aggregate Transaction Value is up to \$50,000,000, (ii) two percent (2%) of the Aggregate Transaction Value if the Aggregate Transaction Value is more than \$50,000,000 but less than \$100,000,000, and (iii) one and a half percent (1.5%) of the Aggregate Transaction Value if the Aggregate Transaction Value is more than \$100,000,000; provided, however, that in any event the Transaction Fee shall not exceed \$2,500,000. "Aggregate Transaction Value" shall be defined to include, without limitation, all cash, securities, notes and other consideration paid, directly or indirectly, by the acquiring entity, plus any debt assumed. The fees determined under the terms of this Agreement shall be due and payable in cash via wire transfer at closing. Any portion of such Transaction Fee attributable to consideration to be paid to the Company and/or its stockholders after the closing of such transaction shall be payable to Creation Capital at the time such consideration is received by the Company and/or its stockholders. If the Aggregate Transaction Value or a portion thereof is in the form of publicly traded debt or equity securities, then the amount of the Aggregate Transaction Value will be based on the fair market value of such securities determined as of the closing date. If the securities are not publicly traded, the fair market value of such securities will be determined by the terms of the final acquisition agreement to be negotiated in good faith between the Company and the acquiring company.

3. Due Diligence

A. Due Diligence and Company Material. The Company shall make members of management, employees and advisors reasonably available to Creation Capital for purposes of satisfying Creation Capital's due diligence requirements and consummating the Offering, and shall commit such time and other resources as are reasonably necessary or appropriate to secure timely success of the Offering. The Company shall cooperate with Creation Capital in connection with, and shall make available to Creation Capital, data, material and other information as Creation Capital shall reasonably request to satisfy its due diligence requirements. Creation Capital will be entitled to rely on and use such data, material and other information that is publicly available without independent verification thereof. From and after the date of this Agreement during the term hereof, the Company shall provide to Creation Capital, if prepared regularly by the Company, monthly balance sheets, income statements, statements of cash flows and other financial information as soon as available following the closing of each month and shall otherwise inform Creation Capital of any material events or

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developments or potential material events affecting the Company at any point during the term of the engagement. None of the documents or other information prepared by the Company provided to Creation Capital, including those in the Memorandum and the Investor Documents, shall contain an untrue statement of a material fact or omit to state a material fact necessary to make any such statements, in light of the circumstances under which they were made, not misleading. Notwithstanding the foregoing, with respect to the projections provided by the Company for inclusion in the offering documents, the Company represents only that they have been prepared based upon assumptions which the Company believes to be reasonable based on facts now known to it (this exception from the foregoing being referred to as the "Projections Qualification"). Following any closing pursuant to the Offering, the Company shall, for a period of three years, provide to Creation Capital all information made available either to purchasers in the Offering or to the Company's stockholders generally.

B. Confidentiality. Creation Capital will keep confidential and not disclose to any third party any confidential information of the Company made available to Creation Capital pursuant to Section 3(A) hereof by the Company, and will use the confidential information only in connection with the engagement hereunder; provided, however, such confidential information shall not include any information already available to or in the possession of Creation Capital prior to the date of its disclosure to Creation Capital by the Company, any information in the Memorandum or the Investor Materials which is generally available to the public, or any information which becomes available to Creation Capital on a non-confidential basis from a third party that is not bound by a confidentiality obligation to the Company, and provided, further, that such confidential information may be disclosed (i) to Creation Capital's partners, employees, agents, advisors and representatives in connection with its engagement hereunder, who shall be informed of the confidential nature of the information and that such information is subject to a confidentiality agreement; (ii) to any person with the consent of the Company, including to any prospective investors; (iii) if Creation Capital is required to disclose such information pursuant to law, judicial or administrative process or regulatory demand or request; or (iv) if such disclosure is deemed necessary by Creation Capital in litigation or any other proceeding in which it or any of its current or former directors, officers, employees, agents, representatives, affiliates or any person who controls Creation Capital is, or is threatened to be made, a party; provided, however, that, in connection with any disclosure pursuant to clauses (iii) or (iv) of this Section 3.B., Creation Capital shall provide prior notice to the Company and shall use commercially reasonable efforts to limit the disclosure to the minimum amount necessary under the circumstances, including obtaining judicial protective orders regarding the Company's confidential information. This subparagraph supersedes any prior agreement between the Company and Creation Capital with respect to confidentiality.

C. Legal Opinion. The Company will, at each closing pursuant to the Offering, furnish Creation Capital with an opinion of its counsel relating to the Company and the Offering in form and substance reasonably satisfactory to Creation Capital and its counsel. In addition, at each closing pursuant to the Offering, the Company will provide Creation Capital with the same certificates of the officers of the Company and other documents and certificates as are furnished to the purchasers in the Offering and such other certification and documents as Creation Capital or its counsel may reasonably request, in form and substance reasonably satisfactory to Creation Capital and its counsel.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

4. Representations and Warranties of the Company. The Company represents and warrants to, and agrees with, Creation Capital that (a) the Company and its subsidiaries have been duly organized and are validly existing as corporations under their jurisdictions of incorporation; (b) this Agreement constitutes a valid and binding obligation of the Company, except as the indemnification and contribution obligations hereof may be limited by principles of equity or by public policy; and (c) subject to the Projections Qualification, the Memorandum as amended and supplemented does not contain and will not at any time prior to the closing date contain, and on the closing date no information supplied by the Company to any prospective investor (directly or through Creation Capital) will contain, an untrue statement of a material fact or omit to state a material fact necessary in order to make the statements therein, in light of the circumstances under which they were made, not misleading.

5. Representations of Creation Capital. Creation Capital represents and warrants to, and agrees with, the Company that (a) Creation Capital is a member in good standing of the National Association of Security Dealers and registered as a broker/dealer under the Securities and Exchange Act of 1934, as amended (the "Exchange Act"); (b) Creation Capital has the requisite power to enter and perform the Agreement; (c) the Agreement has been duly authorized by Creation Capital and, upon execution by the Company, will become binding on Creation Capital; (d) all information supplied by Creation Capital in writing is correct in all material aspects; and (e) Creation Capital will not give investors or potential investors any information that is not described in Section 3 (A).

6. Indemnification. Creation Capital and the Company hereby agree to the indemnification and contribution provisions set forth in Exhibit A hereto, which is incorporated herein by reference and is part of the Agreement. The indemnification provisions of Exhibit A shall survive any termination of this Agreement. Capitalized terms not otherwise defined therein shall have the meanings set forth in the Agreement.

7. Miscellaneous

A. Notices. All notices or communications hereunder will be in writing and will be mailed or delivered as follows: if to the Company, at the name and address set forth on this first page of this Agreement, facsimile number (801) 583-8635; with a copy to Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., One Financial Center, Boston, MA 02111, Attention: Jonathan L. Kravetz, Esq., facsimile number (617) 542-2241; and if to Creation Capital, at 100 Congress Avenue, Suite 2000, Austin, Texas 78701, Attention: Gregg R. Honigblum, facsimile number: (512) 473-4903; with a copy to Winston & Strawn LLP, 200 Park Avenue, New York, NY 10166, Attention: Nikolai Krylov, Esq., facsimile number (212) 294-4700.

B. No Third Party Rights. The Company acknowledges and agrees that Creation Capital has been retained to act solely as agent to the Company, and not as an agent of any other person, and the Company's engagement of Creation Capital is not intended to confer rights upon any person not a party hereto (including shareholders, employees or creditors of the Company) as against Creation Capital or its affiliates, or their respective directors, officers, employees or agents, successors or assigns. Creation Capital shall act as an independent contractor under this Agreement, and any duties arising out of its engagement shall be owed solely to the Company.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

C. Confidentiality. Except to the extent legally required (after consultation with Creation Capital and its counsel), none of (i) the name of Creation Capital, (ii) any advice rendered by Creation Capital to the Company or (iii) any communication from Creation Capital in connection with the services performed by Creation Capital pursuant to this Agreement will be quoted or referred to orally or in writing or, in the case of (ii) or (iii), reproduced or disseminated by the Company or any of its affiliates or any of their agents, without Creation Capital's prior written consent.

D. Survival; Governing Law; Entire Agreement. The representations, warranties and covenants of the Company set forth herein will remain in full force and effect regardless of any investigation made by or on behalf of Creation Capital, any investor or any other entity or persons and will survive delivery of the Stock. The provisions of this Section 7 and Sections 1.C., 2, 3.A., 3.B., 4 and 5 hereof shall survive any termination of this Agreement and the offering, sale and delivery of the Stock for a period of three (3) years following the earlier of the final delivery of the Stock or the termination of this Agreement, as applicable. This Agreement, and any claim, counterclaim or dispute of any kind or nature whatsoever arising out of in any way relating to this Agreement ("Claim"), directly or indirectly, shall be governed by and construed in accordance with the internal laws of the State of New York, regardless of the conflict of law principles. Except as set forth below, no Claim may be commenced, prosecuted or continued in any court other than the courts of the State of New York located in the City and County of New York or in the United States District Court of the Southern District of New York, which courts shall have exclusive jurisdiction over the adjudication of such matters, and the Company and Creation Capital consent to the jurisdiction of such courts and personal service with respect thereto. The Company hereby consents to personal jurisdiction, service and venue in any court in which any Claim is brought by any third party against Creation Capital or any indemnified party arising out of the Offering. Each of Creation Capital and the Company waives all right to trial by jury in any Claim brought by the other (whether based upon contract, tort or otherwise). The Company agrees that a final judgment in any such Claim brought in any such court shall be conclusive and binding upon the Company and may be enforced in any other courts in the jurisdiction of which the Company is or may be subject, by suit upon such judgment. This Agreement contains the entire agreement between the Company and Creation Capital concerning the Offering, unless subsequently amended in a writing signed by both parties, and supersedes any prior understanding or agreement whether written or oral. Any amendment hereto or waiver of any right or obligation hereunder must be in writing signed by the party to be charged. Neither party may assign any of its obligations and responsibilities hereunder without the written consent of the other party. This Agreement shall be binding upon the Company and Creation Capital and their respective successors and permitted assigns and any successor or assign of any substantial portion of the Company's and Creation Capital's respective businesses and/or assets.

This Agreement is effective as of the date first set forth above. Please confirm that the foregoing correctly sets forth our understanding, by signing and returning to us the enclosed duplicate of this Agreement.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

Sincerely,

CREATION CAPITAL LLC

By: /s/ Gregg R. Honigblum

Name: Gregg R. Honigblum

Title: Chief Executive Officer

Accepted and agreed
as of the date first written above:

AMEDICA CORPORATION

By: /s/ Ashok Kharndkar

Ashok Khandkar

Chief Executive Officer

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Indemnification and Contribution*Indemnification by the Company.*

The Company agrees to indemnify and hold harmless Creation Capital, its affiliates, and each of their respective affiliates, directors, officers, agents, advisors, consultants, employees and controlling persons (as defined in Section 15 of the Securities Act of 1933 and Section 20 (a) of the Exchange Act) (Creation Capital and each such other person or entity are hereinafter referred to as "Creation Capital Indemnified Person"), from and against any losses, claims, damages, reasonable expenses and liabilities or actions in respect thereof (collectively, "Losses") as they may be incurred, including all legal fees and other expenses incurred in connection with investigating, preparing, defending, paying, settling or compromising any Losses, whether or not in connection with any pending or threatened litigation in which any Creation Capital Indemnified Person is a named party, to which any of them may become subject (including in any settlement effected with the Company's consent, which shall not be unreasonably withheld) and which are related to or arise out of any act or omission of the Company contemplated by or related to the Agreement. The Company will not, however, be responsible under the foregoing provisions with respect to any Losses to the extent that a court of competent jurisdiction shall have determined by a final, non-appealable judgment that such Losses resulted from a Creation Capital Indemnified Person's gross negligence or bad faith.

If the indemnity referred to in this Exhibit A should be, for any reason whatsoever, unenforceable, unavailable or otherwise insufficient to hold each Creation Capital Indemnified Person harmless for all Losses incurred by it, the Company shall pay to or on behalf of each Creation Capital Indemnified Person contributions for Losses so that each Creation Capital Indemnified Person ultimately bears only such portion of such Losses as is appropriate (i) to reflect the relative benefits received by each such Creation Capital Indemnified Person, respectively, on the one hand and the Company on the other hand in connection with the transactions contemplated by the Agreement or (ii) if the allocation on that basis is not permitted by applicable law, to reflect not only the relative benefits referred to in clause (i) above but also the relative fault of each such Creation Capital Indemnified Person, respectively, and the Company as well as any other relevant equitable considerations; provided, however, that in no event shall the aggregate contribution of all Creation Capital Indemnified Persons to all Losses exceed the amount of the fees actually received by Creation Capital pursuant to the Agreement. The respective relative benefits received by Creation Capital and the Company in connection with any Offering shall be deemed to be in the same proportion as the aggregate fee paid to Creation Capital in connection with the Offering bears to the gross proceeds of the Offering. The relative fault of each Creation Capital Indemnified Person and the Company shall be determined by reference to, among, other things, whether the actions or omissions to act were by such Creation Capital Indemnified Person or the Company, and the parties' relative intent, knowledge, access to information and opportunity to correct or present such action or omission to act. The Company and Creation Capital agree that it would not be just and equitable if contributions were determined by pro rata allocation or by any other method of allocation which does not take account of the equitable contributions referred to above.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

The Company also agrees that no Creation Capital Indemnified Person shall have any liability to the Company or its affiliates, directors, officers, employees, agents, advisors or shareholders, directly or indirectly, related to or arising out of the Agreement, except Losses incurred by the Company that a court of competent jurisdiction shall have determined by a final, non-appealable judgment to have resulted from such Creation Capital Indemnified Person's gross negligence or bad faith. In no event, regardless of the legal theory advanced, shall any Creation Capital Indemnified Person be liable for any consequential, indirect, incidental, punitive or special damages of any nature.

Promptly after receipt by any Creation Capital Indemnified Person of notice of any pending or threatened litigation, such Creation Capital Indemnified Person will promptly notify the Company in writing of such matter; provided, however, that the failure to provide such prompt notice to the Company shall not relieve the Company of any liability which it may have to such Creation Capital Indemnified Person unless such failure to provide such prompt notice to the Company has materially prejudiced the defense of the litigation. In the event any such action is brought against any Creation Capital Indemnified Person, the Company shall be entitled to participate therein and to assume the defense thereof, with counsel reasonably satisfactory to the Creation Capital Indemnified Person, unless, however, the Creation Capital Indemnified Person reasonably determines that defenses may be available to the Creation Capital Indemnified Person that are not available to the Company and/or may not be consistent with the best interest of the Company. In such event, the Creation Capital Indemnified Person shall have the right to assume its own defense, with counsel reasonably satisfactory to the Company, and shall so signify by promptly notifying the Company in writing of its decision. Such decision shall not relieve the Company of any liability which it may have to the Creation Capital Indemnified Person, including the reimbursement of reasonable legal fees or other expenses incurred in connection with the Creation Capital Indemnified Person's defense. The Company shall not, without the prior written consent of the Creation Capital Indemnified Person, effect any settlement of, consent to the entry of any judgment in, or otherwise seek to terminate any pending or threatened proceeding arising out of or relating to the engagement, unless such settlement includes an express, unconditional release of such Creation Capital Indemnified Person from all liabilities asserted, or potential claims, against the Creation Capital Indemnified Person. The Company shall not be liable for any settlement Creation Capital enters into without the Company's consent, which consent shall not be unreasonably withheld.

Indemnification by Creation Capital.

In consideration of the Agreement, Creation Capital agrees to indemnify and hold harmless the Company, its affiliates, and each of their respective affiliates, directors, officers, agents, advisors, consultants, employees and controlling persons (the Company and each such other person or entity are hereinafter referred to as a "Company Indemnified Person"), from and against any Losses as they may be incurred, including all legal fees and other expenses incurred in connection with investigating, preparing, defending, paying, settling or compromising any Losses, whether or not in connection with any pending or threatened litigation in which any Company Indemnified Person is a named party, to which any of them may become subject (including in any settlement effected with the Creation Capital's consent, which shall not be unreasonably withheld) with respect to the information provided in writing by Creation Capital

to the Company specifically for inclusion in the Memorandum, and which information the Company eluded in the Memorandum. Creation Capital will not, however, be responsible under the foregoing provisions with respect to any Losses to the extent that a court of competent jurisdiction shall have determined by a final, non-appealable judgment that such Losses resulted from a Company Indemnified Person's gross negligence or bad faith.

If the indemnity referred to in this Exhibit A should be, for any reason whatsoever, unenforceable, unavailable or otherwise insufficient to hold each Company Indemnified Person harmless for all Losses incurred by it, Creation Capital shall pay to or on behalf of each Company Indemnified Person contributions for Losses so that each Company Indemnified Person ultimately bears only such portion of such Losses as is appropriate (i) to reflect the relative benefits received by each such Company Indemnified Person, respectively, on the one hand and Creation Capital on the other hand in connection with the transactions contemplated by the Agreement or (ii) if the allocation on that basis is not permitted by applicable law, to reflect not only the relative benefits referred to in clause (i) above but also the relative fault of each such Company Indemnified Person, respectively, and Creation Capital as well as any other relevant equitable considerations. The respective relative benefits received by Creation Capital and the Company in connection with any Offering shall be deemed to be in the same proportion as the aggregate fee paid to Creation Capital in connection with the Offering bears to the gross proceeds of the Offering. The relative fault of each Company Indemnified Person and Creation Capital shall be determined by reference to, among, other things, whether the actions or omissions to act were by such Company Indemnified Person or Creation Capital, and the parties' relative intent, knowledge, access to information and opportunity to correct or present such action or omission to act. The Company and Creation Capital agree that it would not be just and equitable if contributions were determined by pro rata allocation or by any other method of allocation which does not take account of the equitable contributions referred to above.

Promptly after receipt by any Company Indemnified Person of notice of any pending or threatened litigation, such Company Indemnified Person will promptly notify Creation Capital in writing of such matter; provided, however, that the failure to provide such prompt notice to Creation Capital shall not relieve Creation Capital of any liability which it may have to the Company Indemnified Person unless such failure to provide such prompt notice to Creation Capital has materially prejudiced the defense of the litigation. In the event any such action is brought against any Company Indemnified Person, Creation Capital shall be entitled to participate therein and to assume the defense thereof, with counsel reasonably satisfactory to the Company Indemnified Person, unless, however, the Company Indemnified Person reasonably determines that defenses may be available to the Company Indemnified Person that are not available to Creation Capital and/or may not be consistent with the best interest of Creation Capital. In such event, the Company Indemnified Person shall have the right to assume its own defense, with counsel reasonably satisfactory to Creation Capital, and shall so signify by promptly notifying Creation Capital in writing of its decision. Such decision shall not relieve Creation Capital of any liability which it may have to the Company Indemnified Person, including the reimbursement of reasonable legal fees or other expenses incurred in connection with the Company Indemnified Person's defense. Creation Capital shall not, without the prior written consent of the Company Indemnified Person, effect any settlement of, consent to the entry of any judgment in, or otherwise seek to terminate any pending or threatened proceeding

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arising out of or relating to the engagement, unless such settlement includes an express, unconditional release of such Company Indemnified Person from all liabilities asserted, or potential claims, against the Company Indemnified Person. Creation Capital shall not be liable for any settlement the Company Indemnified Person enters into without Creation Capital's consent, which consent shall not be unreasonably withheld.

General.

The obligations of the Company and Creation Capital referred to above shall be in addition to any rights that any Creation Capital Indemnified Person or Company Indemnified Person may otherwise have at common law or otherwise, and shall be binding upon and inure to the benefit of any successors, assigns, heirs and personal representatives of any Creation Capital Indemnified Person, Company Indemnified Person, Creation Capital and the Company.

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Potential Investors with Which the Company Has Had Prior Contacts

- 1] [*****]
- 2] [*****]
- 3] [*****]
- 4] [*****]
- 5] [*****] and
- 6) [*****]

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March 26, 2007

PERSONAL & CONFIDENTIAL

Mr. Ashok Khandkar
Chief Executive Officer
Amedica Corporation
615 Arapeen
Suite 302
Salt Lake City, Utah 84108

Dear Ashok:

This letter will confirm the agreement under which Amedica Corporation (the "Company") engages Creation Capital LLC ("Creation Capital") as the exclusive placement agent for the Company.

1. Private Placement Engagement

A. Scope of Engagement. The Company hereby engages Creation Capital as the Company's exclusive placement agent during the term of this agreement (the "Agreement") in connection with the proposed private placement of securities of the Company (the "Offering"). Creation Capital hereby accepts such engagement on the terms and conditions set forth herein. It is currently contemplated that the Offering will be structured as a best-efforts private offering of a minimum of \$10,000,000 and a maximum of \$13,500,000 with a \$1,500,000 overallocation of Series D Convertible Preferred Stock of the Company (the "Stock") at a price of \$3.00 per share (the "Offering Price"). The Stock will have the terms substantially as set forth in Appendix I, attached hereto. However, as you know, the final terms of the Offering may be negotiated between the Company and the investors who purchase the Stock in the Offering, and will be set forth in a definitive agreement to be executed by the Company and the investors. This Agreement shall not give rise to any commitment by Creation Capital to purchase any of the Stock, and Creation Capital shall have no authority to bind the Company with respect to the sale of the Stock.

B. Services. Creation Capital will perform the following services in connection with the Offering:

- a) review the Company's current business operations, prospects and projected financial results and such other matters as Creation Capital deems relevant to enable it to render financial advice and assistance to the Company;

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- b) assist the Company and its counsel in the preparation and review of a private placement memorandum and related documents;
 - c) identify and contact potential investors; and
 - d) establish an appropriate escrow account to facilitate the closing(s) of sale(s) of the Stock pursuant to the Offering.

C. Term of Engagement. The term of this Agreement shall extend until the earlier of (i) sale of all of the Stock pursuant to the Offering or (ii) 90 days from the date of Creation Capital's receipt of the final printed Memorandum (as defined below), which period shall be automatically extended until the closing with respect to any subscriptions for investment that have been accepted by the Company prior to such date. The exclusive period may be extended by mutual consent. Upon expiration of this Agreement, any accrued fees and unreimbursed expenses will be immediately due and payable by the Company to Creation Capital. If the Company terminates the Offering prior to the end of the period set forth in the first sentence of this section, does not accept subscriptions from investors that have been properly entered into, or otherwise violates any of its obligations under this Agreement, and subsequently at any time during the one (1) year period following the expiration or termination of the Offering the Company completes a private placement or sells equity or debt securities (other than pursuant to a public offering, to officers and directors of the Company, in connection with the hiring or compensation of employees, consultants or directors, or in connection with a strategic alliance or similar agreement), then Creation Capital shall be entitled to receive, and the Company shall be obligated to pay to Creation Capital, the fees (both the cash and warrant components) set forth in Sections 2(A) and 2(B) below with respect to the securities sold in such offerings or sales.

D. Offering Memorandum. The Offering will be made by means of a private placement memorandum (the "Memorandum"), to be prepared and approved by the Company and its counsel. The Company will also be responsible for updating and supplementing the Memorandum prior to any sale of the Stock pursuant to the Offering to reflect developments and changes affecting the Company. The Memorandum and any amendment or supplement thereto will be in a form reasonably acceptable to Creation Capital and its counsel. The Company agrees that Creation Capital will rely, without independent verification, on the information contained in the Memorandum and shall have no responsibility for any information contained therein. All other documents and materials to be used for circulation to investors (collectively, "Investor Materials") in connection with the Offering will be provided by the Company to Creation Capital in advance, and no such documents or materials will be provided to investors without Creation Capital's prior approval. Creation Capital shall not provide to investors any information about the Company other than Investor Materials that both Creation Capital and the Company have approved. Except as provided in the next sentence, the Memorandum and all Investor Materials shall be the sole responsibility of the Company. Subject to the Projections Qualification (defined below), neither the Memorandum nor any of the Investor Materials shall contain an untrue statement of a material fact or omit to state a material fact necessary to make the statements therein, in light of the circumstances under which they were made, not misleading, except that the Company shall not be responsible for any information concerning Creation Capital supplied by Creation Capital in writing to the Company for inclusion therein, which information shall be governed by the same standard but for which Creation Capital shall be responsible.

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E. Compliance with Securities Laws. Each of the Company and Creation Capital agrees to conduct the Offering in a manner intended to qualify for the exemption from the registration requirements of the Securities Act of 1933, as amended (the “Securities Act”), available pursuant to Regulation D thereunder. Each of the Company and Creation Capital agrees to limit offers to sell, and solicitations of offers to buy, the Stock in connection with the Offering to persons reasonably believed by it to be “accredited investors” within the meaning of Rule 501(a) under the Securities Act. Each of the Company and Creation Capital agrees that it will not engage in any form of general solicitation or general advertising in connection with the Offering within the meaning of Rule 502(c) under the Securities Act. Each of the Company and Creation Capital agrees to conduct the Offering in a manner intended to comply with the registration or qualification requirements, or available exemptions therefrom, under applicable state “blue sky” laws and applicable securities laws of other jurisdictions in which the Company and Creation Capital agree that offers and sales will be made. None of the Company, Creation Capital nor any person acting on their respective behalf has, prior to the date hereof, taken any action which, if taken after the date hereof, would constitute a violation of the preceding four sentences. The Company shall be responsible for compliance with the filing requirements of the securities laws of states and other jurisdictions and in that respect shall provide to Creation Capital a “blue sky” memorandum and shall make all filings and take all other actions as are required in connection with compliance with such laws. The Company will not, for a period of six (6) months following the final closing date under the Offering, offer for sale or sell securities in a transaction the primary purpose of which is to raise capital for the Company unless, in the opinion of the Company’s legal counsel, concurred with by Creation Capital’s legal counsel, such offer or sale does not jeopardize the availability of exemptions from the registration and the qualification requirements under applicable federal securities laws, state “blue sky” laws or the securities laws of any other jurisdiction with respect to the Offering.

2. Fees and Expenses

A. Placement Agent Fee. From time to time, upon the closing of the sale of the Stock, the Company agrees to pay Creation Capital a placement agent fee equal to six percent (6%) of the gross proceeds of all sales of Stock pursuant to the Offering. Fees payable pursuant to this section shall be due whether or not the investors were introduced to or contacted on behalf of the Company by Creation Capital; provided, however, the foregoing fees shall not apply to any investment by (i) any officer of the Company or member of the Company’s Board of Directors, or (ii) any entity listed on Exhibit B hereto (all such investors described in clauses (i) and (ii) being hereinafter referred to as “Company-Related Investors”). Such fees shall be payable in cash; and provided, further, that Creation Capital shall, in its sole discretion, have the right to elect to receive any or all of the placement agent fees in shares of Stock, the value of which shares will be calculated on the basis of the Offering Price. Creation Capital shall be entitled, but shall not be obligated, to purchase Stock sold in the Offering on the same terms and conditions as the other purchasers in the Offering.

B. Warrants. From time to time, upon the closing of the sale of Stock, Creation Capital shall receive (in addition to the fee set forth in Section 2.A. above) warrants to

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purchase a number of shares of Stock equal to six percent (6%) of the total value of the shares of Stock sold in the Offering; provided, however, the foregoing warrant coverage shall not apply to any investment by any Company-Related Investors. The warrants (a) will be exercisable for a period of seven-years from the date of the final closing of the sale of Stock pursuant to the Offering, (b) will have an exercise price equal to 110% of the price per share of Stock in the Offering and (c) will be exercisable on the earlier of (i) one (1) year from the date of final sale of shares of Stock pursuant to the Offering, (ii) the consummation of a registered public offering or (iii) the consummation of a merger of the Company with or into another entity, acquisition of the outstanding capital stock of the Company, sale of the Company's assets, or recapitalization as a result of which the Company's stockholders immediately prior to such transaction hold less than 50% of the voting power of the surviving corporation immediately after such transaction, or more than 50% of the assets of the Company are transferred or sold. The warrants shall be issued pursuant to a definitive warrant agreement containing customary provisions including registration rights, anti-dilution provisions which comply with NASD or other applicable exchange or regulatory requirements, and a cashless exercise provision.

C. Expenses. The Company agrees to pay Creation Capital (i) upon each closing of the sale of Stock one percent (1%) of the amount of gross proceeds from the sale of Stock pursuant to the Offering for non-accountable expenses, up to a maximum of \$100,000, plus (ii) reasonable fees and expenses of legal counsel up to \$15,000 of which shall be payable to Creation Capital's counsel as a retainer upon execution of this Agreement. The Company agrees to pay up front all reasonable expenses incurred as a result of marketing purposes, including the printing of the Memorandum and the Investor Materials, renting of facilities for any presentations, and travel expenses, it being agreed that any such expenses incurred by Creation Capital in conducting the Offering shall be creditable against the \$100,000 above unless such expenses relate to the Company's travel and participation in the Offering, which expenses shall be entirely borne by the Company.

D. Related Transactions. (a) To the extent that any purchaser (or its affiliate) in the Offering (other than any current stockholder of the Company, except, for purposes of this clause only, any investor in Series A Convertible Preferred Stock, Series B Convertible Preferred Stock of the Company), or Series C Convertible Preferred Stock purchases any other equity or debt securities of the Company from the Company in a private sale during the twelve (12) month period following the closing of such purchaser's last purchase of Stock in the Offering, Creation Capital shall be entitled to receive with respect to such subsequent sale the fees (both the cash and warrant components) as set forth in Sections 2.A. and 2.B. hereof. Notwithstanding the foregoing, Creation Capital shall not be entitled to receive any fees pursuant to this Section 2.D. with respect to sales of securities by the Company to any Company-Related Investor, except in the event of a Change of Control (as defined below).

3. Due Diligence

A. Due Diligence and Company Material. The Company shall make members of management, employees and advisors reasonably available to Creation Capital for purposes of satisfying Creation Capital's due diligence requirements and consummating the Offering, and shall commit such time and other resources as are reasonably necessary or appropriate to secure timely success of the Offering. The Company shall cooperate with

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Creation Capital in connection with, and shall make available to Creation Capital, data, material and other information as Creation Capital shall reasonably request to satisfy its due diligence requirements. Creation Capital will be entitled to rely on and use such data, material and other information that is publicly available without independent verification thereof. From and after the date of this Agreement during the term hereof, the Company shall provide to Creation Capital, if prepared regularly by the Company, monthly balance sheets, income statements, statements of cash flows and other financial information as soon as available following the closing of each month and shall otherwise inform Creation Capital of any material events or developments or potential material events affecting the Company at any point during the term of the engagement. None of the documents or other information prepared by the Company provided to Creation Capital, including those in the Memorandum and the Investor Documents, shall contain an untrue statement of a material fact or omit to state a material fact necessary to make any such statements, in light of the circumstances under which they were made, not misleading. Notwithstanding the foregoing, with respect to the projections provided by the Company for inclusion in the offering documents, the Company represents only that they have been prepared based upon assumptions which the Company believes to be reasonable based on facts now known to it (this exception from the foregoing being referred to as the "Projections Qualification"). Following any closing pursuant to the Offering, the Company shall, for a period of three years, provide to Creation Capital all information made available either to purchasers in the Offering or to the Company's stockholders generally.

B. Confidentiality. Creation Capital will keep confidential and not disclose to any third party any confidential information of the Company made available to Creation Capital pursuant to Section 3(A) hereof by the Company, and will use the confidential information only in connection with the engagement hereunder; provided, however, such confidential information shall not include any information already available to or in the possession of Creation Capital prior to the date of its disclosure to Creation Capital by the Company, any information in the Memorandum or the Investor Materials which is generally available to the public, or any information which becomes available to Creation Capital on a non-confidential basis from a third party that is not bound by a confidentiality obligation to the Company, and provided, further, that such confidential information may be disclosed (i) to Creation Capital's partners, employees, agents, advisors and representatives in connection with its engagement hereunder, who shall be informed of the confidential nature of the information and that such information is subject to a confidentiality agreement; (ii) to any person with the consent of the Company, including to any prospective investors; (iii) if Creation Capital is required to disclose such information pursuant to law, judicial or administrative process or regulatory demand or request; or (iv) if such disclosure is deemed necessary by Creation Capital in litigation or any other proceeding in which it or any of its current or former directors, officers, employees, agents, representatives, affiliates or any person who controls Creation Capital is, or is threatened to be made, a party; provided, however, that, in connection with any disclosure pursuant to clauses (iii) or (iv) of this Section 3.B., Creation Capital shall provide prior notice to the Company and shall use commercially reasonable efforts to limit the disclosure to the minimum amount necessary under the circumstances, including obtaining judicial protective orders regarding the Company's confidential information. This subparagraph supersedes any prior agreement between the Company and Creation Capital with respect to confidentiality.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

C. Legal Opinion. The Company will, at each closing pursuant to the Offering, furnish Creation Capital with an opinion of its counsel relating to the Company and the Offering in form and substance reasonably satisfactory to Creation Capital and its counsel. In addition, at each closing pursuant to the Offering, the Company will provide Creation Capital with the same certificates of the officers of the Company and other documents and certificates as are furnished to the purchasers in the Offering and such other certification and documents as Creation Capital or its counsel may reasonably request, in form and substance reasonably satisfactory to Creation Capital and its counsel.

4. Representations and Warranties of the Company. The Company represents and warrants to, and agrees with, Creation Capital that (a) the Company and its subsidiaries have been duly organized and are validly existing as corporations under their jurisdictions of incorporation; (b) this Agreement constitutes a valid and binding obligation of the Company, except as the indemnification and contribution obligations hereof may be limited by principles of equity or by public policy; and (c) subject to the Projections Qualification, the Memorandum as amended and supplemented does not contain and will not at any time prior to the closing date contain, and on the closing date no information supplied by the Company to any prospective investor (directly or through Creation Capital) will contain, an untrue statement of a material fact or omit to state a material fact necessary in order to make the statements therein, in light of the circumstances under which they were made, not misleading.

5. Representations of Creation Capital. Creation Capital represents and warrants to, and agrees with, the Company that (a) Creation Capital is a member in good standing of the National Association of Security Dealers and registered as a broker/dealer under the Securities and Exchange Act of 1934, as amended (the "Exchange Act"); (b) Creation Capital has the requisite power to enter and perform the Agreement; (c) the Agreement has been duly authorized by Creation Capital and, upon execution by the Company, will become binding on Creation Capital; (d) all information supplied by Creation Capital in writing is correct in all material aspects; and (e) Creation Capital will not give investors or potential investors any information that is not described in Section 3 (A).

6. Indemnification. Creation Capital and the Company hereby agree to the indemnification and contribution provisions set forth in Exhibit A hereto, which is incorporated herein by reference and is part of the Agreement. The indemnification provisions of Exhibit A shall survive any termination of this Agreement. Capitalized terms not otherwise defined therein shall have the meanings set forth in the Agreement.

7. Miscellaneous

A. Notices. All notices or communications hereunder will be in writing and will be mailed or delivered as follows: if to the Company, at the name and address set forth on this first page of this Agreement, facsimile number (801) 583-8635; with a copy to Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., One Financial Center, Boston, MA 02111, Attention: Jonathan L. Kravetz, Esq., facsimile number (617) 542-2241; and if to Creation Capital, at 100 Congress Avenue, Suite 2000, Austin, Texas 78701, Attention: Gregg R. Honigblum, facsimile number: (512) 473-4903; with a copy to Winston & Strawn LLP, 200 Park Avenue, New York, NY 10166, Attention: Nikolai Krylov, Esq., facsimile number (212) 294-4700.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

B. No Third Party Rights. The Company acknowledges and agrees that Creation Capital has been retained to act solely as agent to the Company, and not as an agent of any other person, and the Company's engagement of Creation Capital is not intended to confer rights upon any person not a party hereto (including shareholders, employees or creditors of the Company) as against Creation Capital or its affiliates, or their respective directors, officers, employees or agents, successors or assigns. Creation Capital shall act as an independent contractor under this Agreement, and any duties arising out of its engagement shall be owed solely to the Company.

C. Confidentiality. Except to the extent legally required (after consultation with Creation Capital and its counsel), none of (i) the name of Creation Capital, (ii) any advice rendered by Creation Capital to the Company or (iii) any communication from Creation Capital in connection with the services performed by Creation Capital pursuant to this Agreement will be quoted or referred to orally or in writing or, in the case of (ii) or (iii), reproduced or disseminated by the Company or any of its affiliates or any of their agents, without Creation Capital's prior written consent.

D. Survival; Governing Law; Entire Agreement. The representations, warranties and covenants of the Company set forth herein will remain in full force and effect regardless of any investigation made by or on behalf of Creation Capital, any investor or any other entity or persons and will survive delivery of the Stock. The provisions of this Section 7 and Sections 1.C., 2, 3.A., 3.B., 4 and 5 hereof shall survive any termination of this Agreement and the offering, sale and delivery of the Stock for a period of three (3) years following the earlier of the final delivery of the Stock or the termination of this Agreement, as applicable. This Agreement, and any claim, counterclaim or dispute of any kind or nature whatsoever arising out of in any way relating to this Agreement ("Claim"), directly or indirectly, shall be governed by and construed in accordance with the internal laws of the State of New York, regardless of the conflict of law principles. Except as set forth below, no Claim may be commenced, prosecuted or continued in any court other than the courts of the State of New York located in the City and County of New York or in the United States District Court of the Southern District of New York, which courts shall have exclusive jurisdiction over the adjudication of such matters, and the Company and Creation Capital consent to the jurisdiction of such courts and personal service with respect thereto. The Company hereby consents to personal jurisdiction, service and venue in any court in which any Claim is brought by any third party against Creation Capital or any indemnified party arising out of the Offering. Each of Creation Capital and the Company waives all right to trial by jury in any Claim brought by the other (whether based upon contract, tort or otherwise). The Company agrees that a final judgment in any such Claim brought in any such court shall be conclusive and binding upon the Company and may be enforced in any other courts in the jurisdiction of which the Company is or may be subject, by suit upon such judgment. This Agreement contains the entire agreement between the Company and Creation Capital concerning the Offering, unless subsequently amended in a writing signed by both parties, and supersedes any prior understanding or agreement whether written or oral. Any amendment hereto or waiver of any right or obligation hereunder must be in writing signed by the party to be charged. Neither party may assign any of its obligations and responsibilities hereunder without the written consent of the other party. This Agreement shall be binding upon the Company and Creation Capital and their respective successors and permitted assigns and any successor or assign of any substantial portion of the Company's and Creation Capital's respective businesses and/or assets.

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Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

This Agreement is effective as of the date first set forth above. Please confirm that the foregoing correctly sets forth our understanding, by signing and returning to us the enclosed duplicate of this Agreement.

Sincerely,

CREATION CAPITAL LLC

By: /s/ Gregg R. Honigblum

Name: Gregg R. Hunigblum

Title: Chief Executive Officer

Accepted and agreed
as of the date first written above:

AMEDICA CORPORATION

By: /s/ Ashok Khandkar

Ashok Khandkar

Chief Executive Officer

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

Indemnification and Contribution**Indemnification by the Company.**

The Company agrees to indemnify and hold harmless Creation Capital, its affiliates, and each of their respective affiliates, directors, officers, agents, advisors, consultants, employees and controlling persons (as defined in Section 15 of the Securities Act of 1933 and Section 20 (a) of the Exchange Act) (Creation Capital and each such other person or entity are hereinafter referred to as "Creation Capital Indemnified Person"), from and against any losses, claims, damages, reasonable expenses and liabilities or actions in respect thereof (collectively, "Losses") as they may be incurred, including all legal fees and other expenses incurred in connection with investigating, preparing, defending, paying, settling or compromising any Losses, whether or not in connection with any pending or threatened litigation in which any Creation Capital Indemnified Person is a named party, to which any of them may become subject (including in any settlement effected with the Company's consent, which shall not be unreasonably withheld) and which are related to or arise out of any act or omission of the Company contemplated by or related to the Agreement. The Company will not, however, be responsible under the foregoing provisions with respect to any Losses to the extent that a court of competent jurisdiction shall have determined by a final, non-appealable judgment that such Losses resulted from a Creation Capital Indemnified Person's gross negligence or bad faith.

If the indemnity referred to in this Exhibit A should be, for any reason whatsoever, unenforceable, unavailable or otherwise insufficient to hold each Creation Capital Indemnified Person harmless for all Losses incurred by it, the Company shall pay to or on behalf of each Creation Capital Indemnified Person contributions for Losses so that each Creation Capital Indemnified Person ultimately bears only such portion of such Losses as is appropriate (i) to reflect the relative benefits received by each such Creation Capital Indemnified Person, respectively, on the one hand and the Company on the other hand in connection with the transactions contemplated by the Agreement or (ii) if the allocation on that basis is not permitted by applicable law, to reflect not only the relative benefits referred to in clause (i) above but also the relative fault of each such Creation Capital Indemnified Person, respectively, and the Company as well as any other relevant equitable considerations; provided, however, that in no event shall the aggregate contribution of all Creation Capital Indemnified Persons to all Losses exceed the amount of the fees actually received by Creation Capital pursuant to the Agreement. The respective relative benefits received by Creation Capital and the Company in connection with any Offering shall be deemed to be in the same proportion as the aggregate fee paid to Creation Capital in connection with the Offering bears to the gross proceeds of the Offering. The relative fault of each Creation Capital Indemnified Person and the Company shall be determined by reference to, among, other things, whether the actions or omissions to act were by such Creation Capital Indemnified Person or the Company, and the parties' relative intent, knowledge, access to information and opportunity to correct or present such action or omission to act. The Company and Creation Capital agree that it would not be just and equitable if contributions were determined by pro rata allocation or by any other method of allocation which does not take account of the equitable contributions referred to above.

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The Company also agrees that no Creation Capital Indemnified Person shall have any liability to the Company or its affiliates, directors, officers, employees, agents, advisors or shareholders, directly or indirectly, related to or arising out of the Agreement, except Losses incurred by the Company that a court of competent jurisdiction shall have determined by a final, non-appealable judgment to have resulted from such Creation Capital Indemnified Person's gross negligence or bad faith. In no event, regardless of the legal theory advanced, shall any Creation Capital Indemnified Person be liable for any consequential, indirect, incidental, punitive or special damages of any nature.

Promptly after receipt by any Creation Capital Indemnified Person of notice of any pending or threatened litigation, such Creation Capital Indemnified Person will promptly notify the Company in writing of such matter; provided, however, that the failure to provide such prompt notice to the Company shall not relieve the Company of any liability which it may have to such Creation Capital Indemnified Person unless such failure to provide such prompt notice to the Company has materially prejudiced the defense of the litigation. In the event any such action is brought against any Creation Capital Indemnified Person, the Company shall be entitled to participate therein and to assume the defense thereof, with counsel reasonably satisfactory to the Creation Capital Indemnified Person, unless, however, the Creation Capital Indemnified Person reasonably determines that defenses may be available to the Creation Capital Indemnified Person that are not available to the Company and/or may not be consistent with the best interest of the Company. In such event, the Creation Capital Indemnified Person shall have the right to assume its own defense, with counsel reasonably satisfactory to the Company, and shall so signify by promptly notifying the Company in writing of its decision. Such decision shall not relieve the Company of any liability which it may have to the Creation Capital Indemnified Person, including the reimbursement of reasonable legal fees or other expenses incurred in connection with the Creation Capital Indemnified Person's defense. The Company shall not, without the prior written consent of the Creation Capital Indemnified Person, effect any settlement of, consent to the entry of any judgment in, or otherwise seek to terminate any pending or threatened proceeding arising out of or relating to the engagement, unless such settlement includes an express, unconditional release of such Creation Capital Indemnified Person from all liabilities asserted, or potential claims, against the Creation Capital Indemnified Person. The Company shall not be liable for any settlement Creation Capital enters into without the Company's consent, which consent shall not be unreasonably withheld.

Indemnification by Creation Capital.

In consideration of the Agreement, Creation Capital agrees to indemnify and hold harmless the Company, its affiliates, and each of their respective affiliates, directors, officers, agents, advisors, consultants, employees and controlling persons (the Company and each such other person or entity are hereinafter referred to as a "Company Indemnified Person"), from and against any Losses as they may be incurred, including all legal fees and other expenses incurred in connection with investigating, preparing, defending, paying, settling or compromising any Losses, whether or not in connection with any pending or threatened litigation in which any Company Indemnified Person is a named party, to which any of them may become subject (including in any settlement effected with the Creation Capital's consent, which shall not be unreasonably withheld) with respect to the information provided in writing by Creation Capital to the Company specifically for inclusion in the Memorandum, and which information the

Company included in the Memorandum. Creation Capital will not, however, be responsible under the foregoing provisions with respect to any Losses to the extent that a court of competent jurisdiction shall have determined by a final, non-appealable judgment that such Losses resulted from a Company Indemnified Person's gross negligence or bad faith.

If the indemnity referred to in this Exhibit A should be, for any reason whatsoever, unenforceable, unavailable or otherwise insufficient to hold each Company Indemnified Person harmless for all Losses incurred by it, Creation Capital shall pay to or on behalf of each Company Indemnified Person contributions for Losses so that each Company Indemnified Person ultimately bears only such portion of such Losses as is appropriate (i) to reflect the relative benefits received by each such Company Indemnified Person, respectively, on the one hand and Creation Capital on the other hand in connection with the transactions contemplated by the Agreement or (ii) if the allocation on that basis is not permitted by applicable law, to reflect not only the relative benefits referred to in clause (i) above but also the relative fault of each such Company Indemnified Person, respectively, and Creation Capital as well as any other relevant equitable considerations. The respective relative benefits received by Creation Capital and the Company in connection with any Offering shall be deemed to be in the same proportion as the aggregate fee paid to Creation Capital in connection with the Offering bears to the gross proceeds of the Offering. The relative fault of each Company Indemnified Person and Creation Capital shall be determined by reference to, among, other things, whether the actions or omissions to act were by such Company Indemnified Person or Creation Capital, and the parties' relative intent, knowledge, access to information and opportunity to correct or present such action or omission to act. The Company and Creation Capital agree that it would not be just and equitable if contributions were determined by pro rata allocation or by any other method of allocation which does not take account of the equitable contributions referred to above.

Promptly after receipt by any Company Indemnified Person of notice of any pending or threatened litigation, such Company Indemnified Person will promptly notify Creation Capital in writing of such matter; provided, however, that the failure to provide such prompt notice to Creation Capital shall not relieve Creation Capital of any liability which it may have to the Company Indemnified Person unless such failure to provide such prompt notice to Creation Capital has materially prejudiced the defense of the litigation. In the event any such action is brought against any Company Indemnified Person, Creation Capital shall be entitled to participate therein and to assume the defense thereof, with counsel reasonably satisfactory to the Company Indemnified Person, unless, however, the Company Indemnified Person reasonably determines that defenses may be available to the Company Indemnified Person that are not available to Creation Capital and/or may not be consistent with the best interest of Creation Capital. In such event, the Company Indemnified Person shall have the right to assume its own defense, with counsel reasonably satisfactory to Creation Capital, and shall so signify by promptly notifying Creation Capital in writing of its decision. Such decision shall not relieve Creation Capital of any liability which it may have to the Company Indemnified Person, including the reimbursement of reasonable legal fees or other expenses incurred in connection with the Company Indemnified Person's defense. Creation Capital shall not, without the prior written consent of the Company Indemnified Person, effect any settlement of, consent to the entry of any judgment in, or otherwise seek to terminate any pending or threatened proceeding arising out of or relating to the engagement, unless such settlement includes an express,

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unconditional release of such Company Indemnified Person from all liabilities asserted, or potential claims, against the Company Indemnified Person. Creation Capital shall not be liable for any settlement the Company Indemnified Person enters into without Creation Capital's consent, which consent shall not be unreasonably withheld.

General

The obligations of the Company and Creation Capital referred to above shall be in addition to any rights that any Creation Capital Indemnified Person or Company Indemnified Person may otherwise have at common law or otherwise, and shall be binding upon and inure to the benefit of any successors, assigns, heirs and personal representatives of any Creation Capital Indemnified Person, Company Indemnified Person, Creation Capital and the Company.

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Potential Investors with Which the Company Has Had Prior Contacts

- 1] [*****]
- 2] [*****]
- 3] [*****]
- 4] [*****]
- 5] [*****] and
- 6] [*****]

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MASTER LEASE AGREEMENT

Dated As Of: April 28, 2006

This MASTER LEASE AGREEMENT is made and entered into by and between Chase Equipment Leasing Inc. ("Lessor"), an Ohio corporation, with its principal place of business at 1111 Polaris Parkway, Suite A3 (OH1-1085), Columbus, Ohio 43240 and the Lessee identified below:

Lessee Name: AMEDICA CORP.

Lessee Address: 615 ARAPEEN DR STE 302
SALT LAKE CITY, UT 84108

Lessee Organization: A Corporation organized under the laws of the State of DE

1. LEASE OF EQUIPMENT: Lessor leases to Lessee, and Lessee leases from Lessor, all the property described in the Lease Schedules which are signed from time to time by Lessor and Lessee.

2. CERTAIN DEFINITIONS: "Schedule" means each Lease Schedule signed by Lessee and Lessor which incorporates the terms of this Master Lease Agreement, together with all exhibits, riders, attachments and addenda thereto. "Equipment" means the property described in each Schedule, together with all attachments, additions, accessions, parts, repairs, improvements, replacements and substitutions thereto. "Lease", "herein", "hereunder", "hereof" and similar words mean this Master Lease Agreement and all Schedules, together with all exhibits, riders, attachments and addenda to any of the foregoing, as the same may from time to time be amended, modified or supplemented. "Prime Rate" means the prime rate of interest announced from time to time as the prime rate by JP Morgan Chase Bank, N.A. (or its successors or assigns); provided, that the parties acknowledge that the Prime Rate is not intended to be the lowest rate of interest charged by said bank in connection with extensions of credit. "Lien" means any security interest, lien, mortgage, pledge, encumbrance, judgment, execution, attachment, warrant, writ, levy, other judicial process or claim of any nature whatsoever by or of any person. "Fair Market Value" means the amount which would be paid for an item of Equipment by an informed and willing buyer (other than a used equipment or scrap dealer) and an informed and willing seller neither under a compulsion to buy or sell. "Lessor's Cost" means the invoiced price of any item of Equipment plus any other cost to Lessor of acquiring an item of Equipment as set forth in the Schedule. "Other Credit Agreement" means any agreement applicable to Lessee or any Guarantor (as defined in Section 14 below) or by which Lessee or any Guarantor is bound involving a liability, indebtedness or performance obligation of Lessee or any Guarantor with a potential liability to Lessee or any Guarantor in an amount equal to or in excess of \$50,000.00. All terms defined in the Lease are equally applicable to both the singular and plural form of such terms.

3. LEASE TERM AND RENT: The term of the lease of the Equipment described in each Schedule ("Lease Term") commences on the date stated in the Schedule and continues for the term stated therein. As rent for the Equipment described in each Schedule, Lessee shall pay Lessor the rent payments and all other amounts stated in such Schedule, payable on the dates

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specified therein. All payments due under the Lease shall be made in United States dollars at Lessors office stated in the opening paragraph or as otherwise directed by Lessor in writing. If any payment under the Lease is due on a day on which Lessor is not open for business, then such payment shall be due and payable on the next preceding day on which Lessor is open for business.

4. ORDERING, DELIVERY, REMOVAL AND INSPECTION OF EQUIPMENT: If an Event of Default occurs or if for any reason Lessee does not accept, or revokes its acceptance of, equipment covered by a purchase order or purchase contract or if any commitment or agreement of Lessor to lease equipment to Lessee expires, terminates or is otherwise cancelled, then automatically upon notice from Lessor, any purchase order or purchase contract and all obligations thereunder shall be assigned to Lessee and Lessee shall pay and perform all obligations thereunder. Lessee agrees to pay, defend, indemnify and hold Lessor harmless from any liabilities, obligations, claims, costs and expenses (including reasonable attorney fees and expenses) of whatever kind imposed on or asserted against Lessor in any way related to any purchase orders or purchase contracts. Lessee shall make all arrangements for, and Lessee shall pay all costs of, transportation, delivery, installation and testing of Equipment. The Equipment shall be delivered to Lessee's premises stated in the applicable Schedule and shall not be removed without Lessor's prior written consent. Lessor has the right upon reasonable notice to Lessee to inspect the Equipment wherever located. Lessor may enter upon any premises where Equipment is located and remove it immediately, without notice or liability to Lessee, upon the expiration or other termination of the Lease Term.

5. MAINTENANCE AND USE: Lessee agrees it will, at its sole expense: (a) repair and maintain the Equipment in good condition and working order and supply and install all replacement parts or other devices when required to so maintain the Equipment or when required by applicable law or regulation, which parts, or devices shall automatically become part of the Equipment; (b) use and operate the Equipment in a careful manner in the normal course of its business and only for the purposes for which it was designed in accordance with the manufacturer's warranty requirements, and comply with all laws and regulations relating to the Equipment, and obtain all permits or licenses necessary to install, use or operate the Equipment; and (c) make no alterations, additions, subtractions, upgrades or improvements to the Equipment without Lessor's prior written consent, but any such alterations, additions, upgrades or improvements shall automatically become part of the Equipment. The Equipment will not be used or located outside of the United States of America.

6. NET LEASE; NO EARLY TERMINATION: The Lease is a net lease. Lessee's obligation to pay all rent and all other amounts payable under the Lease is absolute and unconditional under any and all circumstances and shall not be affected by any circumstances of any character including, without limitation, (a) any setoff, claim, counterclaim, defense or reduction which Lessee may have at any time against Lessor or any other party for any reason, or (b) any defect in the condition, design or operation of, any lack of fitness for use of, any damage to or loss of, or any lack of maintenance or service for any of the Equipment. Each Schedule is a noncancelable lease of the Equipment described therein and Lessee's obligation to pay rent and perform all other obligations thereunder and under the Lease are not subject to prepayment, cancellation or termination by Lessee for any reason.

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7. NO WARRANTIES BY LESSOR: LESSOR LEASES THE EQUIPMENT AS-IS, WHERE-IS, AND WITH ALL FAULTS. LESSOR MAKES NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, OF ANY KIND AS TO THE EQUIPMENT INCLUDING, WITHOUT LIMITATION: ITS MERCHANTABILITY; ITS FITNESS FOR ANY PARTICULAR PURPOSE; ITS DESIGN, CONDITION, QUALITY, CAPACITY, DURABILITY, CAPABILITY, SUITABILITY OR WORKMANSHIP; ITS NON-INTERFERENCE WITH OR NON-INFRINGEMENT OF ANY PATENT, TRADEMARK, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT; OR ITS COMPLIANCE WITH ANY LAW, RULE, SPECIFICATION, PURCHASE ORDER OR CONTRACT PERTAINING THERETO. Lessor hereby assigns to Lessee the benefit of any assignable manufacturer's or supplier's warranties, but Lessor, at Lessee's written request, will cooperate with Lessee in pursuing any remedies Lessee may have under such warranties. Any action taken with regard to warranty claims against any manufacturer or supplier by Lessee will be at Lessee's sole expense. LESSOR MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, OF ANY KIND AS TO THE FINANCIAL CONDITION OR FINANCIAL STATEMENTS OF ANY PARTY OR AS TO THE TAX OR ACCOUNTING TREATMENT OR CONSEQUENCES OF THE LEASE, THE EQUIPMENT OR THE RENT PAYMENTS.

8. INSURANCE: Lessee at its sole expense shall at all times keep each item of Equipment insured against all risks of loss or damage from every cause whatsoever for an amount not less than the greater of the full replacement value or the Stipulated Loss Value (as defined in Section 9(b) below) of such item of Equipment. Lessee at its sole expense shall at all times carry public liability and third party property damage insurance in amounts satisfactory to Lessor (but in no event less than \$5,000,000.00) protecting Lessee and Lessor from liabilities for injuries to persons and damage to property of others relating in any way to the Equipment. All insurers shall be reasonably satisfactory to Lessor. Lessee shall deliver to Lessor satisfactory evidence of such coverage prior to and during the Lease Term of each Schedule. Proceeds of any insurance covering damage or loss of the Equipment shall be payable to Lessor as loss payee and shall be applied as set forth in Section 9 below). Proceeds of any public liability or third party property insurance shall be payable first to Lessor as additional insured to the extent of its liability, then to Lessee. If an Event of Default occurs and is continuing, then Lessee automatically appoints Lessor as Lessee's attorney-in-fact with full power and authority in the place of Lessee and in the name of Lessee or Lessor to make claim for, receive payment of, and sign and endorse all documents, checks or drafts for loss or damage under any such policy. Each insurance policy will require that the insurer give Lessor at least 30 days prior written notice of any cancellation of such policy and will require that Lessor's interests remain insured regardless of any act, error, omission, neglect or misrepresentation of Lessee. In the event that any policies insuring against liability risks described above shall now or hereafter provide coverage on a "claims made" basis, Lessee shall continue to maintain such policies in effect for a period of not less than three years after the expiration of the Lease Term of any Schedules. The insurance maintained by Lessee shall be primary without any right of contribution from insurance which may be maintained by Lessor.

9. LOSS AND DAMAGE: (a) Lessee bears the entire risk of loss, theft, damage or destruction of Equipment in whole or in part from any reason whatsoever ("Casualty Loss"). No Casualty Loss to Equipment shall relieve Lessee from the obligation to pay rent or from any other obligation under the Lease. In the event of Casualty Loss to any item of Equipment, Lessee

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shall immediately notify Lessor of the same and Lessee shall, if so directed by Lessor, immediately repair the same. If Lessor determines that any item of Equipment has suffered a Casualty Loss beyond repair ("Lost Equipment"), then Lessee, at the option of Lessor, shall: (1) immediately replace the Lost Equipment with similar equipment in good repair, condition and working order free and clear of any Liens and deliver to Lessor a bill of sale covering the replacement equipment, in which event such replacement equipment shall automatically be Equipment under the Lease; or (2) on the rent payment date which is at least 30 but no more than 60 days after the date of the Casualty Loss, pay to Lessor all accrued and unpaid rent, late charges and other amounts due under the Lease on or before such rent payment date plus the Stipulated Loss Value for such Lost Equipment as of the date the Stipulated Loss Value payment is due. Upon payment by Lessee of all amounts due under the above clause (2), the lease of the Lost Equipment will terminate and Lessor shall transfer to Lessee all of Lessor's right, title and interest in such Equipment on an "as-is, where-is" basis with all faults, without recourse and without representation or warranty of any kind, express or implied.

(b) "Stipulated Loss Value" of any item of Equipment during its Lease Term equals the Stipulated Loss Value of the Equipment as set forth in its Schedule. If the Stipulated Loss Value of any item of Equipment is not set forth in its Schedule, then the Stipulated Loss Value shall be equal to 102% of the present value discounted in arrears to the applicable date at the applicable SLV Discount Rate of (1) the remaining rents and all other amounts [including, without limitation, any balloon payment and, as to a terminal rental adjustment clause ("TRAC") lease, the TRAC value stated in the Schedule, and any other payments required to be paid by Lessee at the end of the applicable Lease Term] payable under the Lease for such item on and after such date to the end of the applicable Lease Term and (2) an amount equal to the Economic Value of the Equipment. For any item of Equipment, "Economic Value" means the Fair Market Value of the Equipment at the end of the applicable Lease Term as originally anticipated by Lessor at the Commencement Date of the applicable Schedule; provided, that Lessee agrees that such value shall be determined by the books of Lessor as of the Commencement Date of the applicable Schedule. After the payment of all rent due under the applicable Schedule and the expiration of the Lease Term of any item of Equipment, the Stipulated Loss Value of such item equals the Economic Value of such item. Stipulated Loss Value shall also include any Taxes payable by Lessor in connection with its receipt thereof. For any item of Equipment, "SLV Discount Rate" means an interest rate equal to LIBOR in effect on the Commencement Date of the Schedule for such item. "LIBOR" means the London Interbank Offered Rate for 30 day loans as published in the Wall Street Journal on the applicable date; provided that if the Wall Street Journal is not published on a particular day, the rate shall be as published in the most recently preceding published Wall Street Journal or, if the Wall Street Journal has stopped publishing 30-day LIBOR or if the Wall Street Journal has stopped publishing 30-day LIBOR on at least a monthly basis, in a comparable publication as reasonably determined by Lessor.

10. TAX BENEFITS INDEMNITY: (a) The Lease has been entered into on the basis that Lessor shall be entitled to such deductions, credits and other tax benefits as are provided by federal, state and local income tax law to an owner of the Equipment (the "Tax Benefits") including, without limitation: (1) modified accelerated cost recovery deductions on each item of Equipment under Section 168 of the Code (as defined below) in an amount determined commencing with the taxable year in which the Commencement Date of the applicable Schedule occurs, using the maximum allowable depreciation method available under

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Section 168 of the Code, using a recovery period (as defined in Section 168 of the Code) reasonably determined by Lessor, and using an initial adjusted basis which is equal to the Lessor's Cost of such item; (2) amortization of the expenses paid by Lessor in connection with the Lease on a straight-line basis over the term of the applicable Schedule; and (3) Lessor's federal taxable income will be subject to the maximum rate on corporations in effect under the Code as of the Commencement Date of the applicable Schedule.

(b) If on any one or more occasions (1) Lessor shall lose, shall not have or shall lose the right to claim all or any part of the Tax Benefits, (2) there shall be reduced, disallowed, recalculated or recaptured all or any part of the Tax Benefits, or (3) all or any part of the Tax Benefits is reduced by a change in law or regulation (each of the events described in subparagraphs 1, 2 or 3 of this paragraph (b) will be referred to as a "Tax Loss"), then, upon 30 days written notice by Lessor to Lessee that a Tax Loss has occurred, Lessee shall pay Lessor an amount which, in the reasonable opinion of Lessor and after the deduction of all taxes required to be paid by Lessor with respect to the receipt of such amount, will provide Lessor with the same after-tax net economic yield which was originally anticipated by Lessor as of the Commencement Date of the applicable Schedule.

(c) A Tax Loss shall occur upon the earliest of: (1) the happening of any event (such as disposition or change in use of an item of Equipment) which may cause such Tax Loss; (2) Lessor's payment to the applicable taxing authority of the tax increase resulting from such Tax Loss; or (3) the adjustment of Lessor's tax return to reflect such Tax Loss.

(d) Lessor shall not be entitled to payment under this section for any Tax Loss caused solely by one or more of the following events: (1) a disqualifying sale or disposition of an item of Equipment by Lessor prior to any Event of Default by Lessee; (2) Lessor's failure to timely or properly claim the Tax Benefits in Lessor's tax return; (3) a disqualifying change in the nature of Lessor's business or liquidation thereof; (4) a foreclosure by any person holding through Lessor a security interest on an item of Equipment which foreclosure results solely from an act of Lessor; or (5) Lessor's failure to have sufficient taxable income or tax liability to utilize the Tax Benefits.

(e) "Code" shall mean the Internal Revenue Code of 1986, as amended. For the purposes of this section 10, the term "Lessor" shall include any affiliate group (within the meaning of section 1504 of the Code) of which Lessor is a member for any year in which a consolidated income tax return is filed for such affiliated group. Lessee's obligations under this section shall survive the expiration, cancellation or termination of the Lease.

11. GENERAL TAX INDEMNITY: Lessee will pay, and will defend, indemnify and hold Lessor harmless on an after-tax basis from, any and all Taxes (as defined below) and related audit and contest expenses on or relating to (a) any of the Equipment, (b) the Lease, (c) purchase, acceptance, ownership, lease, possession, use, operation, transportation, return or other disposition of any of the Equipment, and (d) rentals or earnings relating to any of the Equipment or the Lease. "Taxes" means present and future taxes or other governmental charges that are not based on the net income of Lessor, whether they are assessed to or payable by Lessee or Lessor, including, without limitation (i) sales, use, excise, licensing, registration, titling, franchise, business and occupation, gross receipts, stamp and personal property taxes, (ii) levies, imposts, duties, assessments, charges and withholdings, (iii) penalties, fines, and additions to tax and (iv)

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interest on any of the foregoing. Unless Lessor elects otherwise in a writing sent to Lessee, Lessor will prepare and file all reports and returns relating to any Taxes and will pay all Taxes to the appropriate taxing authority. Lessee will reimburse Lessor for all such payments promptly on request. On or after any applicable assessment/levy/lien date for any personal property Taxes relating to any Equipment, Lessee agrees that upon Lessor's request Lessee shall pay to Lessor the personal property Taxes which Lessor reasonably anticipates will be due, assessed, levied or otherwise imposed on any Equipment during its Lease Term. If Lessor elects in a writing sent to Lessee, Lessee will itself prepare and file all such reports and returns, pay all such Taxes directly to the taxing authority, and send Lessor evidence thereof. Lessee's obligations under this section shall survive the expiration, cancellation or termination of the Lease.

12. GENERAL INDEMNITY: Lessee assumes all risk and liability for, and shall defend, indemnify and keep Lessor harmless on an after-tax basis from, any and all liabilities, obligations, losses, damages, penalties, claims, actions, suits, costs and expenses, including reasonable attorney fees and expenses, of whatsoever kind and nature imposed on, incurred by or asserted against Lessor, in any way relating to or arising out of the manufacture, purchase, acceptance, rejection, ownership, possession, use, selection, delivery, lease, operation, condition, sale, return or other disposition of the Equipment or any part thereof (including, without limitation, any claim for latent or other defects, whether or not discoverable by Lessee or any other person, any claim for negligence, tort or strict liability, any claim under any environmental protection or hazardous waste law and any claim for patent, trademark or copyright infringement). Lessee will not indemnify Lessor under this section for loss or liability arising from events which occur after the Equipment has been returned to Lessor or for loss or liability caused directly and solely by the gross negligence or willful misconduct of Lessor. In this section, "Lessor" also includes any director, officer, employee, agent, successor or assign of Lessor. Lessee's obligations under this section shall survive the expiration, cancellation or termination of the Lease.

13. PERSONAL PROPERTY: Lessee represents and agrees that the Equipment is, and shall at all times remain, separately identifiable personal property. Upon Lessor's request, Lessee shall furnish Lessor a landlord's and/or mortgagee's waiver and consent to remove all Equipment. Lessor may display notice of its interest in the Equipment by any reasonable identification. Lessee shall not alter or deface any such indicia of Lessor's interest.

14. DEFAULT: Each of the following events shall constitute an Event of Default under the Lease: (a) Lessee fails to pay any rent or other amount due under the Lease within 10 days of its due date; or (b) Lessee fails to perform or observe any of its obligations in Sections 8, 18, or 22 hereof; or (c) Lessee fails to perform or observe any of its other obligations in the Lease for more than 30 days after Lessor notifies Lessee of such failure; or (d) Lessee or any Guarantor fails to pay or perform or observe any term, covenant (including, but not limited to, any financial covenant), agreement or condition contained in, or there shall occur any payment or other default under or as defined in, any loan, credit agreement, extension of credit or lease in which Lessor or any subsidiary (direct or indirect) of JP Morgan Chase & Co. (or its successors or assigns) is the lender, creditor or lessor (each an "Affiliate Credit Agreement") which shall not be remedied within the period of time (if any) within which such Affiliate Credit Agreement permits such default to be remedied; or (e) any statement, representation or warranty made by Lessee in the Lease, in any Schedule or in any document, certificate or financial statement in

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connection with the Lease proves at anytime to have been untrue or misleading in any material respect as of the time when made; or (f) Lessee or any Guarantor becomes insolvent or bankrupt, or admits its inability to pay its debts as they mature, or makes an assignment for the benefit of creditors, or applies for, institutes or consents to the appointment of a receiver, trustee or similar official for it or any substantial part of its property or any such official is appointed without its consent, or applies for, institutes or consents to any bankruptcy, insolvency, reorganization, debt moratorium, liquidation or similar proceeding relating to it or any substantial part of its property under the laws of any jurisdiction or any such proceeding is instituted against it without stay or dismissal for more than 60 days, or it commences any act amounting to a business failure or a winding up of its affairs, or it ceases to do business as a going concern; or (g) with respect to any guaranty, letter of credit, pledge agreement, security agreement, mortgage, deed of trust, debt subordination agreement or other credit enhancement or credit support agreement (whether now existing or hereafter arising) signed or issued by any party (each a "Guarantor") in connection with all or any part of Lessee's obligations under the Lease, the Guarantor defaults in its obligations thereunder or any such agreement shall cease to be in full force and effect or shall be declared to be null, void, invalid or unenforceable by the Guarantor; or (h) Lessee or any Guarantor fails to pay or perform or observe any term, covenant (including, but not limited to, any financial covenant), agreement or condition contained in, or there shall occur any payment or other default under or as defined in any Other Credit Agreement which shall not be remedied within the period of time (if any) within which such Other Credit Agreement permits such default to be remedied, regardless of whether such default is waived by any other party to such Other Agreement or such default produces or results in the cancellation of such Other Credit Agreement or the acceleration of the liability, indebtedness or other obligation under such Other Credit Agreement; or (i) Lessee or any Guarantor shall suffer the loss of any material license or franchise when Lessor shall reasonably conclude that such loss fairly impairs Lessee's or such Guarantor's ability to perform its obligations required hereunder or with respect hereto; or (j) Lessee or any Guarantor shall fail to pay any final judgment for the payment of money in an amount equal to or in excess of \$50,000.00; or (k) there shall occur in Lessor's reasonable opinion any material adverse change in the financial condition, business or operations of Lessee or any Guarantor.

15. REMEDIES: If any Event of Default exists, Lessor may exercise in any order one or more of the remedies described in the lettered subparagraphs of this section, and Lessee shall perform its obligations imposed thereby:

(a) Lessor may require Lessee to return any or all Equipment as provided in the Lease.

(b) Lessor or its agent may repossess any or all Equipment wherever found, may enter the premises where the Equipment is located and disconnect, render unusable and remove it, may demand that Lessee cease using the Equipment, and may use such premises without charge to store or show the Equipment for sale for up to 90 days.

(c) Lessor may sell any or all Equipment at public or private sale, with or without advertisement or publication, may re-lease or otherwise dispose of it or may use, hold or keep it.

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(d) Lessor may require Lessee to pay to Lessor on a demand date specified by Lessor, with respect to any or all Equipment (i) all accrued and unpaid rent, late charges and other amounts due under the Lease on or before such demand date, plus (ii) as liquidated damages for loss of a bargain and not as a penalty, and in lieu of any further payments of rent, the Stipulated Loss Value of the Equipment on such demand date, plus (iii) interest at the Overdue Rate on the total of the foregoing from the demand date to the date of payment. "Overdue Rate" means an interest rate per annum equal to the higher of 18% or 2% over the Prime Rate over the Prime Rate, but not to exceed the highest rate permitted by applicable law. The parties acknowledge that the foregoing money damage calculation reasonably reflects Lessor's anticipated loss with respect to the Equipment and the related Lease resulting from the Event of Default. If an Event of Default under section 14(f) of this Master Lease Agreement exists, then Lessee will be automatically liable to pay Lessor the foregoing amounts as of the next rent payment date unless Lessor otherwise elects in writing.

(e) Lessee shall pay all costs, expenses and damages incurred by Lessor because of the Event of Default or its actions under this section, including, without limitation any collection agency and/or attorney fees and expenses, and any costs related to the repossession, safekeeping, storage, repair, reconditioning or disposition of the Equipment.

(f) Lessor may terminate the Lease and/or any or all Schedules, may sue to enforce Lessee's performance of its obligations under the Lease and/or may exercise any other right or remedy then available to Lessor at law or in equity.

Except as otherwise expressly required by Section 14 hereof or by applicable law, Lessor is not required to take any legal process or give Lessee any notice before exercising any of the above remedies. None of the above remedies is exclusive, but each is cumulative and in addition to any other remedy available to Lessor. Lessor's exercise of one or more remedies shall not preclude its exercise of any other remedy. No action taken by Lessor shall release Lessee from any of its obligations to Lessor. No delay or failure on the part of Lessor to exercise any right hereunder shall operate as a waiver thereof, nor as an acquiescence in any Event of Default, nor shall any single or partial exercise of any right preclude any other exercise thereof or the exercise of any other right. After any Event of Default, Lessors acceptance of any payment by Lessee under the Lease shall not constitute a waiver by Lessor of such Event of Default, regardless of Lessor's knowledge or lack of knowledge at the time of such payment, and shall not constitute a reinstatement of the Lease if the Lease has been declared in default by Lessor, unless Lessor has agreed in writing to reinstate the Lease and to waive the Event of Default.

If Lessor actually repossesses any Equipment, then it will use commercially reasonable efforts under the then current circumstances to attempt to mitigate its damages; provided, that Lessor shall not be required to sell, re-lease or otherwise dispose of any Equipment prior to Lessor enforcing any of the remedies described above. Lessor may sell or re-lease the Equipment in any manner it chooses, free and clear of any claims or rights of Lessee and without any duty to account to Lessee with respect thereto except as provided below. If Lessor actually sells or re-leases the Equipment, it will credit the net proceeds of any sale of the Equipment, or the net present value (discounted at the then current Prime Rate) of the rents payable under any new lease of the Equipment, against and up to (but not exceeding) the Stipulated Loss Value of the Equipment and any other amounts Lessee owes Lessor, or will reimburse Lessee for and up to (but not exceeding) Lessee's payment thereof. The term "net" as used above shall mean such amount after deducting the costs and expenses described in clause (e) above of this section.

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16. LESSOR'S RIGHT TO PERFORM: If Lessee fails to make any payment under the Lease or fails to perform any of its other agreements in the Lease (including, without limitation, its agreement to provide insurance coverage as stated in the Lease), Lessor may itself make such payment or perform such agreement, and the amount of such payment and the amount of the expenses of Lessor incurred in connection with such payment or performance shall be deemed to be additional rent, payable by Lessee on demand.

17. FINANCIAL AND OTHER REPORTS: Lessee agrees to furnish to Lessor: (a) annual audited financial statements setting forth the financial condition and results of operation of Lessee (financial statements shall include balance sheet, income statement and statement of cash flows and all notes and auditor's report thereto) within 120 days of the end of each fiscal year of Lessee; (b) Quarterly financial statements setting forth the financial condition and results of operation of Lessee within 45 days of the end of each of the first three fiscal quarters of Lessee; (c) Monthly Bank and marketable securities statements within five days of receipt; and (d) such other financial information as Lessor may from time to time reasonably request including, without limitation, financial reports filed by Lessee with federal or state regulatory agencies. All such financial information shall be prepared in accordance with generally accepted accounting principles on a basis consistently applied. Lessee will promptly notify Lessor in writing with full details if any event occurs or any condition exists which constitutes, or which but for a requirement of lapse of time or giving of notice or both would constitute, an Event of Default under the Lease or which might materially and adversely affect the financial condition or operations of Lessee or any affiliate of Lessee. Lessee will promptly notify Lessor in writing of the commencement of any litigation, to which Lessee or any of its subsidiaries or affiliates may be a party (except for litigation in which Lessee's or the affiliate's contingent liability is fully covered by insurance) which, if decided adversely to Lessee would adversely affect or impair the title of Lessor to the Equipment or which, if decided adversely to Lessee would materially adversely affect the business operations or financial condition of Lessee. Lessee will immediately notify Lessor, in writing, of any judgment against Lessee if such judgment would have the effect described in the preceding sentence.

18. NO CHANGES IN LESSEE; FINANCIAL COVENANTS: Lessee shall not: (a) liquidate, dissolve or suspend its business; (b) sell, transfer or otherwise dispose of all or a majority of its assets, except that Lessee may sell its inventory in the ordinary course of its business; (c) enter into any merger, consolidation or similar reorganization unless it is the surviving company; (d) transfer all or any substantial part of its operations or assets outside of the United States of America; or (e) without 30 days advance written notice to Lessor, change its name, state of incorporation or organization, or chief place of business. There shall be no transfer of more than a 25% ownership interest in Lessee or any covenants of Lessee and any Guarantor under any Affiliate Credit Agreement shall remain fully applicable to Lessee and any Guarantor (as the case may be) and shall not be violated by Lessee or any Guarantor (as the case may be) at any time. If for any reason whatsoever an Affiliate Credit Agreement is canceled, discharged or otherwise terminated and if no other Affiliate Credit Agreement remains in effect as to Lessee or any Guarantor, then, automatically and without any action by Lessor or any other party, all financial covenants which are in effect as of the date immediately prior to the cancellation,

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discharge or termination of such Affiliate Credit Agreement shall remain in full force and effect, shall be incorporated in this Master Lease by reference, and shall be made a part of this Master Lease.

19. LATE CHARGES: If any rent or other amount payable under the Lease is not paid within 5 days of its due date, then as compensation for the administration and enforcement of Lessee's obligation to make timely payments, Lessee shall pay with respect to each overdue payment on demand an amount equal to the greater of fifteen dollars (\$15.00) or five percent (5%) of the each overdue payment (but not to exceed the highest late charge permitted by applicable law) plus any collection agency fees and expenses. The failure of Lessor to collect any late charge will not constitute a waiver of Lessors right with respect thereto.

20. NOTICES; POWER OF ATTORNEY: (a) Service of all notices under the Lease shall be sufficient if given personally or couriered or mailed to the party involved at its respective address set forth herein or at such other address as such party may provide in writing from time to time. Any such notice mailed to such address shall be effective three days after deposit in the United States mail with postage prepaid. Notice by overnight courier shall be deemed given and received on the date scheduled for delivery. (b) With respect to any power of attorney covered by the Lease, the powers conferred on Lessor thereby: are powers coupled with an interest; are irrevocable; are solely to protect Lessor's interests under the Lease; and do not impose any duty on Lessor to exercise such powers. Lessor shall be accountable solely for amounts it actually receives as a result of its exercise of such powers.

21. ASSIGNMENT BY LESSOR: Lessor and any assignee of Lessor, with or without notice to or consent of Lessee, may sell, assign, transfer or grant a security interest in all or any part of Lessor's rights, obligations, title or interest in the Equipment, the Lease, any Schedule or the amounts payable under the Lease or any Schedule to any entity (a "transferee"). The transferee shall succeed to all of Lessor's rights in respect to the Lease as assigned to said transferee (including, without limitation, all rights to insurance and indemnity protection described in the Lease). Lessee agrees to sign any acknowledgement and other documents reasonably requested by Lessor or the transferee in connection with any such transfer transaction. Lessee, upon receiving notice of any such transfer transaction, shall comply with the terms and conditions thereof. Lessee agrees that it shall not assert against any transferee any claim, defense, setoff, deduction or counterclaim which Lessee may now or hereafter be entitled to assert against Lessor. Unless otherwise agreed in writing, the transfer transaction shall not relieve Lessor of any of its obligations to Lessee under the Lease and Lessee agrees that the transfer transaction shall not be construed as being an assumption of such obligations by the transferee. Lessee agrees that Lessor may provide lease information and financial information about Lessee on a confidential basis to any prospective transferee.

22. NO ASSIGNMENT, SUBLEASE OR LIEN BY LESSEE: LESSEE SHALL NOT, DIRECTLY OR INDIRECTLY, (a) MORTGAGE, ASSIGN, SELL, TRANSFER, OR OTHERWISE DISPOSE OF THE LEASE OR ANY INTEREST THEREIN OR THE EQUIPMENT OR ANY PART THEREOF, OR (b) SUBLEASE, RENT, LEND OR TRANSFER POSSESSION OR USE OF THE EQUIPMENT OR ANY PART THEREOF TO ANY PARTY, OR (c) CREATE, INCUR, GRANT, ASSUME OR ALLOW TO EXIST ANY LIEN ON THE LEASE, ANY SCHEDULE, THE EQUIPMENT OR ANY PART THEREOF.

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23. EXPIRATION OF LEASE TERM: (a) At least 90 days (or earlier if otherwise specified), but no more than 270 days prior to expiration of the Lease Term of each Schedule, Lessee shall give Lessor written notice of its electing one of the following options for all (but not less than all) of the Equipment covered by such Schedule: return the Equipment under clause (b) below; or purchase the Equipment under clause (c) below. The election of an option shall be irrevocable. If Lessee fails to give timely notice of its election, then (i) Lessee shall be deemed to have elected to return the Equipment to Lessor at the end of the original Lease Term or, if elected by Lessor under clause (ii) of this sentence, the Extended Lease Term, and (ii) Lessor, at its option, may extend the Lease Term for an additional three months ("Extended Lease Term") and all provisions of the Lease shall remain in full force and effect during the Extended Lease Term including, without limitation, obligations to pay rent and insure the Equipment.

(b) If Lessee elects or is deemed to have elected to return the Equipment at the expiration of the Lease Term of a Schedule or if Lessee is obligated at any time to return the Equipment, then Lessee shall, at its sole expense and risk, reinstall, disassemble, pack, crate, insure and return the Equipment to Lessor (all in accordance with applicable industry standards) at any location in the continental United States of America selected by Lessor. The Equipment shall be in the same condition as when received by Lessee, reasonable wear, tear and depreciation resulting from normal and proper use excepted (and, if applicable, in the condition set forth in the Lease or the Schedule), shall be in good operating order and maintenance as required by the Lease, shall be certified as being eligible for any available manufacturer's maintenance program, shall be free and clear of any Liens as required by the Lease, shall comply with all applicable laws and regulations and shall include all manuals, specifications, repair and maintenance records and similar documents. Until Equipment is returned as required above, all provisions of the Lease shall remain in full force and effect including, without limitation, obligations to pay rent and insure the Equipment; provided, that the Lease Term of the lease of the Equipment covered by such Schedule shall be month-to-month or such shorter period as may be specified by Lessor:

(c) If Lessee gives Lessor timely notice of its election to purchase Equipment, then on the expiration date of the applicable Schedule Lessee shall purchase all (but not less than all) of the Equipment and shall pay to Lessor the Fair Market Value of the Equipment plus all Taxes (other than income taxes on Lessor's gains on such sales, costs and expenses incurred or paid by Lessor in connection with such sale plus all accrued but unpaid amounts due with respect to the Equipment and/or the Schedule. The Stipulated Loss Value or Economic Value of any item of Equipment shall have no bearing or influence on the determination of Fair Market Value under this clause (c). Upon payment in full of the above amounts, and if no Event of Default has occurred and is continuing under the Lease, Lessor shall transfer title to such Equipment to Lessee "as-is, where-is" with all faults and without recourse to Lessor and without any representation or warranty of any kind whatsoever by Lessor, express or implied.

(d) For purposes of the purchase option of the Lease, the determination of the Fair Market Value of any Equipment shall be determined (1) without deducting any costs of dismantling or removal from the location of use, (2) on the assumptions that the Equipment is in the better of its then current condition or the condition required by the applicable return and maintenance provisions of the Lease and that the Equipment is free and clear of any Liens as required by the Lease, and (3) by mutual agreement of Lessee and Lessor or, if Lessor and

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Lessee are not able to agree on such value, by the Appraisal Procedure. "Appraisal Procedure" means the determination of Fair Market Value by an independent appraiser acceptable to Lessor and Lessee, or, if the parties are unable to agree on an acceptable appraiser, by averaging the valuation (disregarding the One which differs the most from the other two) of three independent appraisers, the first appointed by Lessor, the second appointed by Lessee and the third appointed by the first two appraisers. Lessee, at its sole expense, shall pay all fees, costs and expenses of the above described appraisers.

24. GOVERNING LAW: THE INTERPRETATION, CONSTRUCTION AND VALIDITY OF THE LEASE SHALL BE GOVERNED BY THE LAWS OF THE STATE OF OHIO WITHOUT REFERENCE TO CONFLICT OF LAW PROVISIONS. WITH RESPECT TO ANY ACTION BROUGHT BY LESSOR AGAINST LESSEE TO ENFORCE ANY TERM OF THE LEASE, LESSEE HEREBY IRREVOCABLY CONSENTS TO THE JURISDICTION AND VENUE OF ANY STATE OR FEDERAL COURT IN OHIO, WHERE LESSOR HAS ITS PRINCIPAL PLACE OF BUSINESS AND WHERE PAYMENTS ARE TO BE MADE BY LESSEE.

25. MISCELLANEOUS: (a) Subject to the limitations herein, the Lease shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, administrators, successors and assigns. (b) This Master Lease Agreement and each Schedule may be executed in any number of counterparts, which together shall constitute a single instrument. If more than one counterpart of each Schedule is executed by Lessee and Lessor, then only one may be marked "Lessor's Original" by Lessor. A security interest in any Schedule may be created through transfer and possession only of: the sole original of said Schedule if there is only one original; or the counterpart marked "Lessor's Original" if there are multiple counterparts of said Schedule. (c) Section and paragraph headings in this Master Lease Agreement and the Schedules are for convenience only and have no independent meaning. (d) The terms of the Lease shall be severable and if any term thereof is declared unconscionable, invalid, illegal or void, in whole or in part, the decision so holding shall not be construed as impairing the other terms of the Lease and the Lease shall continue in full force and effect as if such invalid, illegal, void or unconscionable term were not originally included herein. (e) All indemnity obligations of Lessee under the Lease and all rights, benefits and protections provided to Lessor by warranty disclaimers shall survive the cancellation, expiration or termination of the Lease. (f) Neither party hereto shall be liable to other party hereto for any indirect, consequential or special damages for any reason whatsoever. (g) Each payment made by Lessee shall be applied by Lessor in such manner as Lessor determines in its discretion which may include, without limitation, application as follows: first, to accrued late charges; second, to accrued rent; and third, the balance to any other amounts then due and payable by Lessee under the Lease. (h) If the Lease is signed by more than one Lessee, each of such Lessees shall be jointly and severally liable for payment and performance of all of Lessee's obligations under the Lease. (i) In order to secure all obligations of Lessee under the Lease, Lessee assigns and grants to Lessor a security interest in: all rights, powers and privileges of Lessee under any sublease of any Equipment hereafter authorized in writing by Lessor, and all funds, balances, accounts, proceeds of collateral and/or other property of any kind of Lessee or in which Lessee has an interest now or hereafter in the possession, custody, or control of Lessor or JP Morgan Chase Bank, N.A. and any of its direct or indirect affiliates and subsidiaries, including, without limitation, J.P. Morgan Securities Inc.

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26. GOVERNMENT REGULATION. Lessee shall not (a) be or become subject, at any time, to any law, regulation, or list of any government agency (including, without limitation, the U.S. Office of Foreign Asset Control list) that prohibits or limits Lessor from making any advance or extension of credit to Lessee or from otherwise conducting business with Lessee or (b) fail to provide documentary and other evidence of Lessee's identity as may be requested by Lessor at any time to enable Lessor to verify Lessee's identity or to comply with any applicable law or regulation, including, without limitation, Section 326 of the USA Patriot Act of 2001, 31 U.S.C. Section 5318.

27. USA PATRIOT ACT NOTIFICATION. The following notification is provided to Lessee pursuant to Section 326 of the USA Patriot Act of 2001, 31 U.S.C. Section 5318:

IMPORTANT INFORMATION ABOUT PROCEDURES FOR OPENING A NEW ACCOUNT. To help the government fight the funding of terrorism and money laundering activities, Federal law requires all financial institutions to obtain, verify, and record information that identifies each person or entity that opens an account, including any deposit account, treasury management account, loan, other extension of credit, or other financial services product. What this means for Lessee: When Lessee opens an account, if Lessee is an individual, Lessor will ask for Lessee's name, tax payer identification number, residential address, date of birth, and other information that will allow Lessor to identify Lessee, and if Lessee is not an individual, Lessor will ask for Lessee's name, taxpayer identification number, business address, and other information that will allow Lessor to identify Lessee. Lessor may also ask, if Lessee is an individual, to see Lessee's driver's license or other identifying documents, and if Lessee is not an individual, to see Lessee's legal organizational documents or other identifying documents.

28. REPRESENTATIONS AND WARRANTIES: Lessee represents and warrants to Lessor in connection with each Schedule that (a) Lessee is a corporation, limited liability company, partnership or proprietorship as stated at the outset of the Master Lease duly organized, validly existing and in good standing under the laws of the state of its organization as stated at the outset of the Master Lease and Lessee is qualified to do business and is in good standing under the laws of each other state in which the Equipment is or will be located; (b) Lessee's name as set forth at the outset of this Master Lease is its complete and correct legal name as indicated in the public records of Lessee's state of organization; (c) Lessee has full power, authority and legal right to sign, deliver and perform the Master Lease, the Schedule and all related documents and such actions have been duly authorized by all necessary corporate, company, partnership or proprietorship action; (d) the Master Lease, the Schedule and each related document has been duly signed and delivered by Lessee and each such document constitutes a legal, valid and binding obligation of Lessee enforceable in accordance with its terms; (e) there is no litigation or other proceeding pending, or to the best of the Lessee's knowledge, threatened against or affecting Lessee which, if decided adversely to Lessee, would adversely affect, impair or encumber the interest of Lessor in the Equipment or would materially adversely affect the business operations or financial condition of Lessee; (f) all balance sheets, income statements and other financial data that have been delivered to Lessor (or JP Morgan Chase Bank, N.A.) with respect to Lessee are complete and correct in all material respects, fairly

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present the financial condition of Lessee on the dates for which, and the results of its operations for the periods for which, the same have been furnished and have been prepared in accordance with generally accepted accounting principles consistently applied, (g) there has been no material adverse change in the condition of Lessee, financial or otherwise since the date of the most recent financial statements delivered to Lessor (or JP Morgan Chase Bank, N.A.), and (h) Lessee's organizational number assigned to Lessee by the state of its organization is correctly stated below Lessee's signature.

29. ENTIRE AGREEMENT: THE LEASE REPRESENTS THE FINAL, COMPLETE AND ENTIRE AGREEMENT BETWEEN THE PARTIES HERETO. THERE ARE NO ORAL OR UNWRITTEN AGREEMENTS OR UNDERSTANDINGS AFFECTING THE LEASE OR THE EQUIPMENT. Lessee agrees that Lessor is not the agent of any manufacturer or supplier, that no manufacturer or supplier is an agent of Lessor, and that any representation, warranty or agreement made by manufacturer, supplier or by their employees, sales representatives or agents shall not be binding on Lessor.

30. JURY WAIVER: ALL PARTIES TO THIS MASTER LEASE AGREEMENT WAIVE ALL RIGHTS TO TRIAL BY JURY IN ANY ACTION, PROCEEDING OR COUNTERCLAIM BROUGHT BY ANY PARTY AGAINST ANY OTHER PARTY ON ANY MATTER WHATSOEVER ARISING OUT OF, IN CONNECTION WITH OR IN ANY WAY RELATED TO THIS MASTER LEASE AGREEMENT.

IN WITNESS WHEREOF, the undersigned have duly executed and delivered this Master Lease Agreement as of the date first written above.

AMEDICA CORP.
(Lessee)

By: /s/ Eugene B. Jones
Title: V.P. Finance/CFO
State Organization #: 50688051423
Witness: /s/ Michael John

CHASE EQUIPMENT LEASING INC.
(Lessee)

By: /s/ Mary Short
Title: Funding Manager

Regardless of any prior, present or future oral agreement or course of dealing, no term or condition of the Lease may be amended, modified, waived, discharged, cancelled or terminated except by a written instrument signed by the party to be bound; except Lessee authorizes Lessor to complete the Acceptance Date of each Schedule and the serial numbers of any Equipment.

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AMEDICA CORP.

(Lessee)

By: /s/ Eugene B. Jones

Title: V.P. Finance/CFO

Witness: /s/ Michael John

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LEASE SCHEDULE NO. 1000130440FINANCING LEASE
(Fixed Contract Rate & Per Diem Interim)Master Lease Agreement dated 04/28/2006

Lessor: CHASE EQUIPMENT LEASING INC.

Lessee: AMEDICA CORP.

1. **GENERAL.** This Lease Schedule is signed and delivered under the Master Lease Agreement identified above, as amended from time to time ("Master Lease"), between Lessee and Lessor. The Master Lease is incorporated herein by reference as if set forth at length and Lessee and Lessor confirm that all terms and conditions of the Master Lease remain in full force and effect, except as specifically set forth herein to the contrary. Unless otherwise defined herein, capitalized terms defined in the Master Lease will have the same meanings when used in this Schedule.
2. **FINANCING; EQUIPMENT DESCRIPTION.** Lessor finances for Lessee, and Lessee finances with Lessor, all of the property ("Equipment") described in Schedule A-1 attached hereto (and Lessee represents that all Equipment is new unless specifically identified as used). Lessee irrevocably and unconditionally agrees that the Equipment is and will be used at all times solely for commercial purposes, and not for personal, family or household purposes.

3. **AMOUNT FINANCED:**

Equipment Cost Financed:	\$1,621,898.12
Set-Up/Filing Fee:	\$ 500.00
Miscellaneous:	
Sales Tax:	\$ 0.00
Total Amount Financed:	<u>\$1,622,398.12</u>

4. **FINANCING TERM.** The total Lease Term consists of the Interim Term plus the Base Term. The Interim Term begins on the date that Lessor accepts this Schedule as stated below Lessor's signature ("Acceptance Date") and continues up to the Commencement Date. The Base Term of this Schedule shall be 42 months and the Base Term shall commence on Acceptance Date ("Commencement Date").
5. **INSTALLMENT PAYMENTS AND FEES.** The Total Amount Financed stated above in this Schedule is the original principal amount financed under this Schedule. Lessee agrees to repay said principal amount with interest during the Lease Term by Lessee's payment to Lessor of all amounts stated below on the due dates stated below. There shall be added to each installment payment all applicable Taxes as in effect from time to time.
- (a) During the Lease Term, the above Total Amount Financed shall bear interest at the rate of 9.09% per annum (the "Contract Rate). Interest shall be calculated on the basis of a 360-day year and twelve 30-day months.
- (b) For the Interim Term, Lessee shall pay to Lessor on the Commencement Date an

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

amount equal to one-thirtieth (1/30th) of the Installment Payment multiplied by the number of days in the Interim Term. "Installment Payment" means the total of all installment payments due and payable during the Base Term divided by the number of months in the Base Term.

(c) During the Base Term, Lessee shall pay to Lessor installment payments in the amounts and according to the timing set forth below, provided however, that notwithstanding the following, the final installment payment due hereunder shall be equal to the remaining principal balance due and payable hereunder together with all accrued interest and fees.

(1) Amount of each installment payment during the Base Term (including principal and interest):

42 Monthly

\$45,243.54

(2) Frequency of installment payments during the Base Term: Monthly

(3) Timing of installment payments during the Base Term: In Arrears

(d) Lessee shall pay Lessor a Set-Up/Filing Fee as follows:

(1) \$.00 shall be paid on the Acceptance Date, or

(2) \$ 500.00 has been included in the above Amount Financed of the Equipment.

6. **SECURITY INTEREST.** This Schedule is intended to be a secured debt financing transaction, not a true lease. See Paragraph 7 below regarding Lessee's ownership of the Equipment. As collateral security for payment and performance of all Secured Obligations (defined in Paragraph 8 below) and to induce Lessor to extend credit from time to time to Lessee (under the Lease or otherwise), Lessee hereby grants to Lessor a first priority security interest in all of Lessee's right, title and interest in the Equipment, whether now existing or hereafter acquired, and in all Proceeds (defined in Paragraph 8 below).
7. **TITLE TO EQUIPMENT; FIRST PRIORITY LIEN.** Lessee represents, warrants and agrees: that Lessee currently is the lawful owner of the Equipment; that good and marketable title to the Equipment shall remain with Lessee at all times; that Lessee has granted to Lessor a first priority security interest in the Equipment and all Proceeds; and that the Equipment and all Proceeds are, and at all times shall be, free and clear of any Liens other than Lessor's security interest therein. Lessee at its sole expense will protect and defend Lessors first priority security interest in the Equipment against all claims and demands whatsoever.
8. **CERTAIN DEFINITIONS.** "Secured Obligations" means (a) all payments and other obligations of Lessee under or in connection with this Schedule, and (b) all payments and

other obligations of Lessee (whether now existing or hereafter incurred) under or in connection with the Master Lease and all present and future Lease Schedules thereto, and (c) all other leases, indebtedness, liabilities and/or obligations of any kind (whether now existing or hereafter incurred, absolute or contingent, direct or indirect) of Lessee to Lessor. "Proceeds" means at cash and non-cash proceeds of the Equipment including, without limitation, proceeds of insurance, indemnities and/or warranties.

9. **AMENDMENTS TO MASTER LEASE.** For purposes of this Schedule only, Lessee and Lessor agree to amend the Master Lease as follows: (a) public liability or third party property insurance as described in the second sentence of Section 8 of the Master Lease will not be required; (b) the definition of "Stipulated Loss Value" in clause (b) of Section 9 of the Master Lease is deleted and replaced by Paragraph 10 below; (c) the text of Section 10 of the Master Lease is deleted in its entirety; (d) Subsections 23(a), 23(c) and 23(d) of the Master Lease are deleted; (e) subsection 23(b) of the Master Lease will apply only if an event of default occurs; and (f) all references in the Lease as it relates to this Schedule to "Lessee" and "Lessor" shall be changed to "Borrower" and "Lender" respectively.
10. **STIPULATED LOSS VALUE.** For purposes of this Schedule only, the "Stipulated Loss Value" of any item of Equipment during its Lease Term is equal to 102% of the remaining principal balance due and payable by Lessee under this Schedule as of the date specified by Lessor for payment thereof; provided, that the foregoing calculation shall not exceed the maximum amount which may be collected by Lessor from Lessee under applicable law in connection with enforcement of Lessor's rights under this Schedule and the Master Lease to the extent it relates to this Schedule.
11. **LESSEE TO PAY ALL TAXES.** For purposes of this Schedule and its Equipment only: Lessee, as the owner of the Equipment, shall pay any and all Taxes relating to this Schedule and its Equipment directly to the applicable taxing authority; Lessee shall prepare and file all reports or returns concerning any such Taxes as may be required by applicable law or regulation (provided, that Lessor shall not be identified as the owner of the Equipment in such reports or returns); and Lessee shall, upon Lessor's request, send Lessor evidence of payment of such Taxes and copies of any such reports or returns.
12. **CONDITIONS.** No financing of Equipment under this Schedule shall be binding on Lessor, and Lessor shall have no obligation to disburse funds for the purchase of any Equipment, unless: (a) Lessor has received evidence of all required insurance; (b) in Lessor's sole judgment, there has been no material adverse change in the financial condition or business of Lessee or any Guarantor; (c) Lessee has signed and delivered to Lessor this Schedule, which must be satisfactory to Lessor, and Lessor has signed and accepted this Schedule; (d) no change in the Code or any regulation thereunder, which in Lessor's sole judgment would adversely affect the economics to Lessor of the financing transaction, shall have occurred or shall appear to be imminent; (e) Lessor has received, in form and substance satisfactory to Lessor, such other documents and information as Lessor shall reasonably request; and (f) Lessee has satisfied all other reasonable conditions established by Lessor.

- 13. OTHER DOCUMENTS: EXPENSES:** Lessee agrees to sign and deliver to Lessor any additional documents deemed desirable by Lessor to effect the terms of the Master Lease or this Schedule including, without limitation, Uniform Commercial Code financing statements which Lessor is authorized to file with the appropriate filing officers. Lessee hereby irrevocably appoints Lessor as Lessee's attorney-in-fact with full power and authority in the place of Lessee and in the name of Lessee to prepare, sign, amend, file or record any Uniform Commercial Code financing statements or other documents deemed desirable by Lessor to perfect, establish or give notice of Lessor's interests in the Equipment or in any collateral as to which Lessee has granted Lessor a security interest. Lessee shall pay upon Lessor's written request any actual out-of-pocket costs and expenses, paid or incurred by Lessor in connection with the above terms of this section or the funding and closing of this Schedule.
- 14. GOVERNMENT REGULATION:** Lessee shall not (a) be or become subject, at any time, to any law, regulation, or list of any government agency (including, without limitation, the U.S. Office of Foreign Asset Control list) that prohibits or limits Lessor from making any advance or extension of credit to Lessee or from otherwise conducting business with Lessee or (b) fail to provide documentary and other evidence of Lessee's identity as may be requested by Lessor at any time to enable Lessor to verify Lessee's identity or to comply with any applicable law or regulation, including, without limitation, Section 326 of the USA Patriot Act of 2001, 31 U.S.C. Section 5318.
- 15. USA PATRIOT ACT NOTIFICATION:** The following notification is provided to Lessee pursuant to Section 326 of the USA Patriot Act of 2001, 31 U.S.C. Section 5318:
- IMPORTANT INFORMATION ABOUT PROCEDURES FOR OPENING A NEW ACCOUNT. To help the government fight the funding of terrorism and money laundering activities, Federal law requires all financial institutions to obtain, verify, and record information that identifies each person or entity that opens an account, including any deposit account, treasury management account, loan, other extension of credit, or other financial services product. What this means for Lessee: When Lessee opens an account, if Lessee is an individual, Lessor will ask for Lessee's name, tax payer identification number, residential address, date of birth, and other information that will allow Lessor to identify Lessee, and if Lessee is not an individual, Lessor will ask for Lessee's name, taxpayer identification number, business address, and other information that will allow Lessor to identify Lessee. Lessor may also ask, if Lessee is an individual, to see Lessee's driver's license or other identifying documents, and if Lessee is not an individual, to see Lessee's legal organizational documents or other identifying documents.
- 16. PURCHASE ORDERS AND ACCEPTANCE OF EQUIPMENT.** Lessee agrees that (i) Lessor has not selected, manufactured, sold or supplied any of the Equipment, (ii) Lessee has selected all of the Equipment and its suppliers, and (iii) Lessee has received a copy of, and approved, the purchase orders or purchase contracts for the Equipment. **AS BETWEEN LESSEE AND LESSOR, LESSEE AGREES THAT: (a) LESSEE HAS RECEIVED, INSPECTED AND APPROVED ALL OF THE EQUIPMENT; (b)**

ALL EQUIPMENT IS IN GOOD WORKING ORDER AND COMPLIES WITH ALL PURCHASE ORDERS AND PURCHASE CONTRACTS AND ALL APPLICABLE SPECIFICATIONS; (c) LESSEE IRREVOCABLY ACCEPTS ALL EQUIPMENT FOR PURPOSES OF THE LEASE "AS-IS, WHERE-IS" WITH ALL FAULTS; AND (d) LESSEE UNCONDITIONALLY WAIVES ANY RIGHT THAT IT MAY HAVE TO REVOKE ITS ACCEPTANCE OF THE EQUIPMENT.

LESSEE HAS READ AND UNDERSTOOD ALL OF THE TERMS OF THIS SCHEDULE. LESSEE AGREES THAT THERE ARE NO ORAL OR UNWRITTEN AGREEMENTS WITH LESSOR REGARDING THE EQUIPMENT OR THIS SCHEDULE.

AMEDICA CORP.

(Lessee)

CHASE EQUIPMENT LEASING INC.

(Lessor)

By: /s/ Ashok Khandkar

Title: CEO

Witness: /s/ Reyn Gallacher

By: /s/ Mary Short

Title: Funding Manager

Acceptance Date: January 29, 2007

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

Chase Equipment Leasing Inc.

SCHEDULE A-I EQUIPMENT LEASED HEREUNDER

QUANTITY	DESCRIPTION	PAGE
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ALL PROPERTY DESCRIBED IN THE INVOICES IDENTIFIED BELOW, WHICH PROPERTY MAY BE GENERALLY DESCRIBED AS MANUFACTURING EQUIPMENT.

EQUIPMENT COST: \$1,621,898.12
EQUIPMENT LOCATION: 560 ARAPEEN DRIVE
 SUITE 100
 SALT LAKE CITY, UT 84108
 SALT LAKE COUNTY

VENDOR	INVOICE #	\$ AMOUNT
[*****]	[*****]	[*****]
[*****]	[*****]	[*****]
[*****]	[*****]	[*****]
[*****]	[*****]	[*****]
[*****]	[*****]	[*****]
[*****]	[*****]	[*****]
[*****]	[*****]	[*****]
[*****]	[*****]	[*****]
[*****]	[*****]	[*****]
[*****]	[*****]	[*****]

EQUIPMENT LOCATION: 615 ARAPEEN DRIVE
 SUITE 302
 SALT LAKE CITY, UT 84108
 SALT LAKE COUNTY

[*****] [*****] [*****]

TOGETHER WITH ALL ATTACHMENTS, ADDITIONS, ACCESSIONS, PARTS, REPAIRS, IMPROVEMENTS, REPLACEMENTS AND SUBSTITUTIONS THERETO.

This Schedule A-1 is attached to and made a part of Lease Number 1000130440 and constitutes a true and accurate description of the equipment.

Lessee: AMEDICA CORP.

By: /s/ Ashok Khandkar

Date: January 26, 2007

Scheda-1.057

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

PREPAYMENT SCHEDULE ADDENDUM
(For a Financing Lease Schedule)
(Lockout Period & Break Funding Premium)

Dated As Of January 26, 2007

Lease Schedule No. **1000130400**

Lessee: **AMEDICA CORP.**

Reference is made to the above Lease Schedule ("Schedule") and to the Master Lease Agreement ("Master Lease") identified in the Schedule, which are by and between CHASE EQUIPMENT LEASING INC. ("Lessor") and the above lessee ("Lessee"). As used herein: "Lease" shall mean the Schedule and the Master Lease, but only to the extent that the Master Lease relates to the Schedule. This Schedule Addendum amends and supplements the terms and conditions of the Lease. Unless otherwise defined herein, capitalized terms defined in the Lease shall have the same meaning when used herein. Solely for purposes of the Schedule, Lessor and Lessee agree as follows:

1. Notwithstanding anything to the contrary herein or in the Schedule, Lessee and Lessor agree that Lessee shall not exercise its prepayment rights under this Addendum prior to the end of the Lock-Out Period specified below.

Lock-Out Period: the first 12 months of the Base Term of the Schedule

2. Notwithstanding anything to the contrary in the Lease, Lessee and Lessor agree that so long as no Event of Default has occurred and continues under the Lease and so long as Lessee gives Lessor at least 20 days prior written notice (the "Notice Period") and so long as the above Lock-Out Period has expired, Lessee may elect to prepay its obligations under the Schedule by paying to Lessor on the installment payment date (a "Prepayment Date") following the Notice Period the total of the following (the "Prepayment Amount"): (a) all accrued installment payments, interest, Taxes, late charges and other amounts then due and payable under the Lease; plus (b) the remaining principal balance payable by Lessee under the Schedule as of said Prepayment Date.

3. In addition to the prepayment amounts required by paragraph 2 above, Lessee shall also pay to Lessor a break funding premium equal to the amount, if any, by which (i) the present value of all Remaining Payments (as defined below) discounted to the Prepayment Date at a rate equal to the Interest Rate Swap rate having a term to maturity nearest to the remaining Average Life (as defined below) of the Schedule as reported on the Federal Reserve H.15 report as of the business day preceding the Prepayment Date exceeds (ii) the present value of all Remaining Payments discounted to the Prepayment Date at a rate equal to the Interest Rate Swap rate having a term to maturity nearest to the original Average Life of the Schedule as reported on the Federal Reserve H.15 report as of the Commencement Date of the Schedule. "Remaining Payments" means all remaining installment payments and all other amounts (including, without limitation, any balloon payment and any other payments required to be paid by Lessee at the end of the Base Term of the Schedule) payable under the Schedule after such Prepayment Date to the

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

end of the Base Term of the Schedule. "Average Life" means the average duration of the original or remaining (as the case may be) principal payments included in the installment payments and any balloon payment payable under the Schedule weighted by the amount of the principal payments. If the Federal Reserve Board ceases publication of Interest Rate Swap rates in its Federal Reserve H.15 report or a similar report, then Lessor shall select an alternate publication for interest rate swap information in its reasonable discretion.

4. Except as expressly amended or supplemented by this Addendum and other instruments signed by Lessor and Lessee, the Lease remains unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this Addendum as of the date first written above.

AMEDICA CORP.
(Lessee)

CHASE EQUIPMENT LEASING INC.
(Lessor)

By: /s/ Ashok Khandkar
Title: CEO

By: /s/ Mary Short
Title: Funding Manager

(prepay-CSA-lockout & break funding premium 5.06)

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

Continuing Pledge Agreement

Dated as of April 28, 2006

Pledge. AMEDICA CORP., Tax Identification No. 84-1375299, whose address is stated below Grantor's signature herein, and, if applicable, whose State Organization Number is stated below Grantor's signature herein (the "Pledgor") pledges, assigns, transfers and grants to CHASE EQUIPMENT LEASING INC., whose address is 1111 Polaris Parkway, Suite A3, Columbus, Ohio 43240 (together with its successors and assigns, the "Bank") a continuing security interest in the property listed below under the heading "Schedule of Collateral" (the "Collateral") owned by the Pledgor, all Collateral in which the Pledgor has rights or power to transfer rights and all Collateral in which the Pledgor later acquires ownership, other rights or the power to transfer rights to secure the payment and performance of the Liabilities. If the Collateral consists of "investment property" or "financial assets," as such terms are defined in the Uniform Commercial Code of Ohio, as in effect from time to time (the "UCC"), the grant includes any stock rights, stock dividends, liquidating dividends, new securities, financial assets and other property to which the Pledgor may become entitled because it owns the Collateral and such property delivered to the Bank or to an intermediary designated by the Bank subject to the control of the Bank to satisfy the requirements of the paragraph herein captioned "Loan Value of Collateral and Pledged JPMCB Deposits". The Pledgor has transferred the securities to the Bank or other intermediary, as directed by the Bank, that has entered into control agreements in form and substance satisfactory to the Bank. In the event the transfer is not complete, the Pledgor will complete it within ten (10) days. Collateral shall not include any common trust funds of the Bank in which the Bank is prohibited by applicable law from taking a security interest.

SCHEDULE OF COLLATERAL.

Account Number **360 64 145** (including any successor account, howsoever numbered, "Account") held at **J.P. MORGAN SECURITIES INC.** and all investment property, financial assets, securities, securities entitlements, instruments, investments, cash, free credit balances, other funds and amounts and other assets of every nature and description at any time held in or credited to the Account; and

Account Number **220-02513 RC1** (including any successor account, howsoever numbered, "Account") held at **BEAR, STEARNS & CO. INC.** and all investment property, financial assets, securities, securities entitlements, instruments, investments, cash, free credit balances, other funds and amounts and other assets of every nature and description at any time held in or credited to the Account.

Collateral includes all substitutions, additions, renewals, investments, reinvestments, free credit balances, cash proceeds, general intangibles, insurance, products and supporting obligations including but not limited to all interest, dividends, other proceeds, instruments and other property now or hereafter received, receivable or otherwise distributed in connection with the sale, lease, license, exchange or other disposition of any Collateral.

Borrower. The term "Borrower" in this Pledge means each and all of AMEDICA CORP.

Representations, Warranties and Covenants. The Pledgor represents, warrants and agrees with the Bank that until this Pledge terminates and all Liabilities are paid in full, it owns and it will own the Collateral free and clear of any liens, security interests, assignments or other encumbrances. The Pledgor will not attempt to sell or assign the Collateral if such sale or assign will cause a violation of any of the provisions of the paragraph herein captioned “**Loan Value of Collateral and Pledged JPMCB Deposits**” or create any lien, security interest, assignment or other encumbrance or claim against it. The Pledgor agrees to reimburse the Bank, on demand, for any amounts paid or advanced by the Bank for the purpose of preserving all or any part of the Collateral. The Bank shall exercise reasonable care in the custody and preservation of the Collateral to the extent required by applicable law.

The Pledgor represents, warrants and covenants with the Bank that until this Pledge terminates and all Liabilities are paid in full no financing statement or similar record covering all or any part of the Collateral is on file in any public office, and no person or entity other than the Bank has control of the Collateral unless the Bank has approved that filing and/or control in writing. From time to time at the Bank’s request, the Pledgor will execute one or more financing statements and control agreements in form and substance satisfactory to the Bank and will pay the cost of filing them in all public offices or recording them with any intermediary where filing or recording is deemed by the Bank to be necessary or desirable. In addition, the Pledgor shall execute and deliver, or cause to be executed and delivered, such other documents as the Bank may from time to time request to create, to perfect, to assure the continuing first priority of or to further evidence, the security interest created in the Collateral by this Pledge, including: (a) a notice of security interest and/or a control agreement with respect to any Collateral from persons or entities considered necessary or desirable by the Bank, all in form and substance satisfactory to the Bank; (b) a notice to and acknowledgement from and control agreement with any bailee or other person who maintains, possesses or controls any of the Collateral, all in form and substance satisfactory to the Bank; and (c) any consent to the assignment of proceeds of any letter of credit, all in form and substance satisfactory to the Bank.

The Bank shall have the right now and at any time in the future, in its sole and absolute discretion and without notice to the Pledgor: to (a) prepare, file and sign the Pledgor’s name on any proof of claim in bankruptcy or similar document against any owner of the Collateral and (b) to prepare, file and sign the Pledgor’s name on any financing statement or similar record, notice of lien, control agreement, assignment or satisfaction of lien or similar document in connection with the Collateral.

The Pledgor represents and warrants to the Bank that the following statements are true and will remain true until the termination of this Pledge and payment in full of all Liabilities (a) its principal residence or chief executive office is at the address shown above; (b) the Pledgor’s name as it appears in this Pledge is identical to the name of the Pledgor appearing in the Pledgor’s organizational documents, as amended, including any trust documents; and (c) the State Organization Number, if any, shown above is correct. The Pledgor will not, without the Bank’s prior written consent, change (a) the Pledgor’s name, (b) the Pledgees business organization, (c) the jurisdiction under which the Pledgor’s business organization is formed or organized, or (d) the address of the Pledgor’s chief executive office or principal residence or of any additional places of the Pledgor’s business.

Bank Appointed Attorney-in-Fact. The Pledgor authorizes and irrevocably appoints the Bank as the Pledgor's attorney-in-fact, to do any of the following without notice to the Pledgor or any other person or entity: to take any action and to execute or otherwise authenticate any record or other documentation that the Bank considers necessary or advisable to accomplish the purposes of this Pledge, to exercise any rights under this Pledge and to perform any of the undersigned's obligations under this Pledge including but not limited to the following: (a) to endorse and collect all checks, drafts, other payment orders and instruments representing or included in, the Collateral or representing any payment, dividend or distribution relating to any Collateral; (b) to direct any securities or commodity intermediary or issuer of any Collateral to comply with instructions originated by the Bank directing distribution of the Collateral without the undersigned's further consent; (c) to transfer to or restyle any Collateral into the name of the Bank or the Bank's nominee or any broker-dealer that may be an affiliate of the Bank (including converting physical certificates to book-entry holdings); (d) to transfer to the account of the Bank with any Federal Reserve Bank as Collateral held in book entry form with any Federal Reserve Bank; (e) to execute any control agreement or stock powers or other document of transfer; and (f) to execute any record reasonably believed necessary or appropriate by the Bank for compliance with laws, rules or regulations applicable to any Collateral (including any documentation reasonably believed necessary by the Bank for compliance with Rule 144 or any other restrictions, laws, rules or regulations applicable to any Collateral hereunder that constitutes restricted securities under the applicable securities laws) and to vote any and all securities or exercise any similar right with respect to any Collateral and the Bank is granted an irrevocable proxy to so vote on the undersigned's behalf. The Pledgor's signature on this Pledge or other authentication of this Pledge shall constitute an irrevocable direction by the Pledgor to any bank, custodian, broker-dealer, any other securities intermediary or commodity intermediary or other financial intermediary holding any Collateral or any issuer of any letters of credit to comply with the instructions or entitlement orders, as applicable of the Bank, without the further consent of the Pledgor or any other person or entity. This appointment is Irrevocable and coupled with an interest and shall survive the death or disability of the Pledgor.

Loan Value of Collateral and Pledged JPMCB Deposits. Pledgor agrees that at all times the amount of the Liabilities may not exceed the aggregate Loan Value of the Collateral and the Pledged JPMCB Accounts. The Bank retains the right to determine the eligibility of the Collateral. "Loan Value" means: (a) the value assigned by the Bank from time to time, in its sole reasonable discretion, to each item of the Collateral; and (b) the principal amount of the Pledged JPMCB Deposits. "Pledged JPMCB Deposits" means the accounts pledged as collateral security by Pledgor in favor of the Bank pursuant to the Assignment of Deposit Account No. 707540704 and Assignment of Deposit Account No. 20497139, each dated on or about the date of this Pledge. If Pledgor violates the provisions of this paragraph (a "Loan Value Violation"), then, so long as there is no other violation of the provisions of this Pledge and no other default or event of default with respect to any Liabilities or any agreement related to the Liabilities, the Bank's rights and remedies for the Loan Value Violation shall be as follows: (a) to notify J.P. MORGAN SECURITIES INC. and/or BEAR, STEARNS & CO. INC. to freeze one or more of the Accounts (the "Freeze Notice") whereupon no further sales, purchases or withdrawals may be made by Pledgor from the affected Account for a period of 30 days; (b) to promptly notify Pledgor of any such Freeze Notice; and (c) within said 30-day period after the Freeze Notice, to demand that Pledgor supplement the Collateral and/or the Pledged JPMCB Accounts so as to cure the Loan Value Violation. If Pledgor fails to cure the Loan Value Violation as set forth in

clause (c) of this paragraph within the above-described 30-day cure period or if any other default or event of default with respect to any Liabilities or any agreement related to the Liabilities during the above-described 30-day cure period, then the Bank shall have all rights and remedies provided herein and/or in any agreement related to the Liabilities.

Registration Rights. If any of the Collateral consists of securities not registered under the Securities Act of 1933, and the issuer proposes to register any of its securities, the Pledgor will give the Bank notice of that fact. In addition, and at no cost to the Bank, the Pledgor will use its best efforts to induce the issuer to register the pledged securities so that they may be disposed of by public sale or other public disposition. Upon the completion of registration, the Pledgor will deliver certificates without any restrictive legend in exchange for the unregistered securities. The Pledgor indemnifies and holds the Bank harmless against any loss, claim, damage or liability arising out of the registration process, and will reimburse the Bank for any legal or other expenses incurred by the Bank as a result.

Voting Rights. Until the occurrence of a default or event of default with respect to any Liabilities or any agreement related to the Liabilities, the Pledgor may exercise all voting and consensual powers and rights pertaining to any Collateral for all purposes not inconsistent with the terms of this Pledge and may receive and retain all dividends (other than stock or liquidating dividends) on the Collateral prior to any event of default or default. All dividends in stock or property representing stock, and all subscription rights, warrants or other rights or options, all liquidating dividends or distributions, and all securities or other property received as a result of a merger or consolidation, will be Collateral and must be delivered to the Bank or as instructed by the Bank.

Instructions Regarding the Collateral. The Bank may act upon any instructions given by the Pledgor whether in writing or not, with regard to additions or substitutions or sale or other disposition of the Collateral and its proceeds. The Pledgor agrees that any additions to, substitutions for or proceeds of the Collateral that it receives will be held for the Bank's benefit and turned over to the Bank. The Pledgor also gives the Bank permission to have the Collateral or any part of it transferred to or registered in the Bank's name or in the name of any other person or business entity with or without designation of the capacity of that nominee, and will hold the Bank harmless from any liability or responsibility that might result. A carbon, photographic or other reproduction of this Pledge is sufficient as, and can be filed as, a financing statement or other similar record. The Bank is irrevocably appointed the Pledgor's attorney-in-fact to execute any financing statement or similar record on the Pledgor's behalf covering the Collateral. The Pledgor authorizes the Bank to file one or more financing statements or similar records related to the security interests created by this Pledge, and further authorizes the Bank, Instead of the Pledgor, to sign such financing statements.

Default; Remedies. If any of the Liabilities are not paid at maturity, whether by acceleration or otherwise, or if a default by anyone occurs under the terms of any agreement related to any of the Liabilities or if Pledgor violates any of the provisions of this Pledge, including, without limitation, the paragraph herein captioned "**Loan Value of Collateral and Pledged JPMCB Deposits**", then the Bank shall have all of the rights and remedies provided by law, in equity or this Pledge and the other agreements related to the Liabilities, including but not limited to the rights and remedies of a secured party under the UCC. The Pledgor agrees and acknowledges

that because of applicable securities laws, the Bank may not be able to effect a public sale of the Collateral, and sales at a private sale may be on terms and at a price less favorable than if the securities were sold at a public sale. The Pledgor agrees that all private sales made under these circumstances shall be construed to have been made in a commercially reasonable manner. Should an event of default or a default occur, the Pledgor will pay to the Bank all costs reasonably incurred by the Bank for the purpose of enforcing its rights hereunder or to perform any obligation of the undersigned under this Pledge, to the extent not prohibited by law, including, without limitation: costs of foreclosure; costs of obtaining money damages; and a reasonable fee for the services of internal and outside attorneys employed or engaged by the Bank or its affiliates for any purpose related to this Pledge, including, without limitation, consultation, drafting documents, sending notices or instituting, prosecuting or defending litigation or any proceeding. The Bank's compliance with any applicable state or federal law requirements in connection with the disposition of the Collateral will not adversely affect the commercial reasonableness of any sale of the Collateral. These rights and remedies shall be cumulative and not exclusive. If the Pledgor is entitled to notice, that requirement will be met if the Bank sends notice at least ten (10) days prior to the date of sale, disposition or other event requiring notice, and such notice shall be deemed commercially reasonable. The proceeds of any sale shall be applied first to costs, then toward payment of the Liabilities in any order of application, whether or not the Liabilities have been declared to be due and owing; provided that, to the extent any Liabilities consist of extensions of credit by the Issuance of letters of credit or other like obligations of the Bank to third parties which have not been utilized, such proceeds shall be held by the Bank in a cash collateral account as security for the Liabilities.

Pledge. If the Pledgor is not liable for all or any part of the Liabilities, then the Pledgor agrees that:

1. If any moneys become available from any source other than the Collateral that the Bank can apply to the Liabilities, the Bank may apply them in any manner it chooses, including but not limited to applying them against obligations, indebtedness or liabilities which are not secured by this Pledge.
2. The Bank may take any action against the Borrower, the Collateral or any other collateral for the Liabilities, or any other person or entity liable for any of the Liabilities.
3. The Bank may release the Borrower or anyone else from the Liabilities, either in whole or in part, or release the Collateral in whole or in part or any other collateral for the Liabilities, and need not perfect a security interest in the Collateral or any other collateral for the Liabilities.
4. The Bank does not have to exercise any rights that it has against the Borrower or anyone else, or make any effort to realize on the Collateral or any other collateral for the Liabilities, or exercise any right of setoff.
5. Without notice or demand and without affecting the Pledgees obligations hereunder, from time to time, the Bank is authorized to:
 - (a) renew, modify, compromise, rearrange, restate, consolidate, extend, accelerate or otherwise change the time for payment of, or otherwise change the terms of the Liabilities or any part thereof, including increasing or

decreasing the rate of interest thereon; (b) release, either in whole or in part, the Borrower. and release, either in whole or in part, substitute or add any one or more sureties, endorsers, or guarantors: (c) take and hold other collateral for the payment of the Liabilities, and enforce, exchange, substitute, subordinate, impair, waive or release any such collateral; (d) proceed against the Collateral or any other collateral for the Liabilities and direct the order or manner of sale as the Bank in its discretion may determine; and (e) take any action against the Borrower, the Collateral or any other collateral for the Liabilities, or any other person or entity liable for any of the Liabilities, and (f) apply any and all moneys or payments received by the Bank in connection with the Liabilities, or recoveries from the Collateral or any other collateral for the Liabilities, in such order or manner as the Bank in its discretion may determine, including but not limited to applying them against obligations, indebtedness or liabilities which are not secured by this Pledge.

6. The Pledgor's obligations hereunder shall not be released, diminished or affected by (a) any act or omission of the Bank, (b) the voluntary or involuntary liquidation, sale or other disposition of all or substantially all of the assets of the Borrower or any other obligor on the Liabilities, or any receivership, insolvency, bankruptcy, reorganization, or other similar proceedings affecting the Borrower, any other obligor or any of their respective assets, (c) any change in the composition or structure of the Borrower or any other obligor on the Liabilities, including a merger or consolidation with any other person or entity, or (d) any payments made upon the Liabilities.
7. The Pledgor expressly consents to any impairment of the Collateral or any other collateral for the Liabilities, including, but not limited to, failure to perfect a security interest in such collateral and any release, either in whole or in part, of the Collateral or any other collateral for the Liabilities, and such impairment or release shall not affect the Pledgor's obligations hereunder.
8. The Pledgor waives and agrees not to enforce any rights of subrogation, contribution or indemnification that it may have against the Borrower, any person or entity liable on the Liabilities, or the Collateral, until the Borrower and the Pledgor have fully performed all their obligations to the Bank, even if those obligations are not covered by this Pledge.
9. The Pledgor waives (a) to the extent not prohibited by law, all rights and benefits under any laws or statutes regarding sureties, as may be amended, (b) any right the Pledgor may have to receive notice of the following matters before the Bank enforces any of its rights: (i) the Bank's acceptance of this Pledge, (ii) incurrence or acquisition of any Liabilities, (iii) any credit that the Bank extends to the Borrower, (iv) collateral received or delivered, default by any party to any agreements related to the Liabilities or other action taken in reliance on this Pledge, and all notices and other demands of any description: (v) diligence and promptness in preserving liability against any obligor on the Liabilities, and in collecting or bringing suit to collect the Liabilities from any obligor on the Liabilities or to pursue any remedy in the Bank's power to pursue; (vi) notice of extensions, renewals, modifications, rearrangements, restatements and substitutions of the Liabilities or any collateral for the Liabilities; (vii) notice of failure to pay any of the Liabilities as they mature, any other default, adverse change in the financial condition of any obligor on the Liabilities, release or substitution of any collateral, subordination of the Bank's

rights in any collateral, and every other notice of every kind that may lawfully be waived; (viii) any demand, intent to accelerate, diligence, presentment, dishonor and protest, or (ix) any action that the Bank takes regarding the Borrower, any other person or entity, the Collateral, any other collateral for the Liabilities, or any of the Liabilities, which it may be entitled to contractually, by law or in equity, (c) any right the Pledgor may have to require the Bank to proceed against the Borrower, any guarantor or other obligor of the Liabilities, the Collateral or any other collateral for the Liabilities, or to pursue any remedy in the Bank's power to pursue, or to exercise any right of setoff, (d) any defense based on any claim that the Pledgor's obligations exceed or are more burdensome than those of the Borrower, (e) the benefit of any statute of limitations affecting the Pledgor's obligations hereunder or the enforcement hereof, (f) any defense arising by reason of any disability or other defense of the Borrower or by reason of the cessation from any cause whatsoever (other than payment in full) of the obligation of the Borrower for the Liabilities, and (g) any defense based on or arising out of any defense that the Borrower may have to the payment or performance of the Liabilities or any portion thereof, and (h) agrees not to enforce any rights of subrogation, contribution or indemnification that it may have against the Borrower, any person or entity liable on the Liabilities, or the Collateral, until the Borrower and the Pledgor have fully performed all of their obligations to the Bank, even if those obligations are not covered by this Pledge. The Bank may waive or delay enforcing any of its rights without losing them. Any waiver affects only the specific terms and time period stated in the waiver.

10. The Pledgor agrees that to the extent any payment or transfer is received by the Bank in connection with the Liabilities, and all or any part of such payment or transfer is subsequently invalidated, declared to be fraudulent or preferential, set aside or required to be transferred or repaid by the Bank or transferred to or paid over to a trustee, receiver or any other person or entity, whether under any bankruptcy act or otherwise (any such payment or transfer is hereinafter referred to as a "Preferential Payment"), then this Pledge shall continue to be effective or shall be reinstated, as the case may be, and whether or not the Bank is in possession of this Pledge or whether this Pledge has been marked paid, cancelled, released or returned to Pledgor, and, to the extent of the payment or repayment or other transfer by the Bank, the Liabilities or part thereof intended to be satisfied by the Preferential Payment shall be revived and continued in full force and effect as if the Preferential Payment had not been made. If this Pledge must be reinstated, the Pledgor agrees to execute and deliver to the Bank any new pledges and agreements, if necessary or if requested by the Bank, in form and substance satisfactory to the Bank, covering the Collateral.
11. The Pledgor agrees to fully cooperate with the Bank and not to delay, impede or otherwise interfere with the efforts of the Bank to secure payment from the assets which secure the Liabilities including actions, proceedings, motions, orders, agreements or other matters relating to relief from automatic stay, abandonment of property, use of cash collateral and sale of the Bank's collateral free and clear of all liens.
12. The Pledgor has (a) without reliance on the Bank or any information received from the Bank and based upon the records and information the Pledgor deems appropriate, made an independent investigation of the Borrower, the Borrower's business, assets,

operations, prospects and condition, financial or otherwise, and any circumstances that may bear upon those transactions, the Borrower or the obligations, liabilities and risks undertaken pursuant to this Pledge; (b) adequate means to obtain from the Borrower on a continuing basis information concerning the Borrower and the Bank has no duty to provide any information concerning the Borrower or other obligor on the Liabilities to the Pledgor, (c) full and complete access to the Borrower and any and all records relating to any Liabilities now or in the future owing by the Borrower; (d) not relied and will not rely upon any representations or warranties of the Bank not embodied in this Pledge or any acts taken by the Bank prior to or after the execution or other authentication and delivery of this Pledge (including but not limited to any review by the Bank of the business, assets, operations, prospects and condition, financial or otherwise, of the Borrower); and (e) determined that the Pledgor will receive benefit, directly or indirectly, and has or will receive fair and reasonably equivalent value, for the grant of the interest in the Collateral to the Bank. By entering into this Pledge, the Pledgor does not intend: (i) to incur or believe that the Pledgor will incur debts that would be beyond the Pledgor's ability to pay as those debts mature; or (ii) to hinder, delay or defraud any creditor of the Pledgor. The Pledgor is neither engaged in nor about to engage in any business or transaction for which the remaining assets of the Pledgor are unreasonably small in relation to the business or transaction, and any property remaining with the Pledgor after the execution or other authentication of this Pledge is not unreasonably small capital.

Without limiting any foregoing waiver, consent or agreement, the Pledgor further waives any and all benefits of any law, rule or statute limiting any deficiency upon the sale or foreclosure of the Collateral or of any other collateral for the Liabilities, including Utah Code Annot. Sections 57-1-23 through 57-1-32, inclusive, and Utah Code Annot. Section 78-37-1, including any revision or replacement of such statutes hereafter enacted.

Without limiting any foregoing waiver, consent or agreement, the Pledgor further waives any and all benefits under Arizona Revised Statutes Section 12-1641 through 12-1646, inclusive, and Rule 17(f) of the Arizona Rules of Civil Procedure, including any revision or replacement of such statutes or rules hereafter enacted.

Without limiting any foregoing waiver, consent or agreement, the undersigned further waives all rights, if any, of the undersigned under Rule 31, Texas Rules of Civil Procedure, or Chapter 34 of the Texas Business and Commerce Code, or Section 17.001 of the Texas Civil Practice and Remedies Code and to the extent the undersigned is subject to the Texas Revised Partnership Act ("TRPA") or Section 152.306 of the Texas Business Organizations Code ("BOC"), compliance by the Bank with Section 3.05(d) of TRPA and Section 152.306(b) of BOC.

Without limiting any foregoing waiver, consent or agreement, the Pledgor waives any and all rights to any prior notice or prior opportunity for a hearing that the Pledgor may have under Sections 52-278a to 52-278n, inclusive, of the Connecticut General Statutes, as the same may be amended, or under any similar law whether state, federal or constitutional, that may be hereafter enacted. the Pledgor further waives any requirement for the posting of a bond and any right to request a court to require the Bank to post a bond in connection with any prejudgment remedy sought, it being the Pledgees intent that in the event of any legal action between the Pledgor and the Bank pertaining to this Pledge, the Bank may invoke any prejudgment remedy, without

providing the Pledgor with any prior notice or prior opportunity for a hearing and the Bank's attorney is specifically authorized to issue a writ for any prejudgment remedy without prior court order. The Pledgor acknowledges that it has made these waivers knowingly and voluntarily and after consideration of the ramifications of these waivers with its attorneys.

Representation by Pledgor. The Pledgor represents that the following are and will remain true until termination of this Pledge and payment in full of all Liabilities: (a) the execution and delivery of this Pledge and the performance of the obligations it imposes do not violate any law, do not conflict with any agreement by which it is bound, or require the consent or approval of any governmental authority or any third party; (b) this Pledge is a valid and binding agreement, enforceable according to its terms; and (c) all balance sheets, profit and loss statements, and other financial statements furnished to the Bank in connection with the Liabilities are accurate and fairly reflect the financial condition of the organizations and persons to which they apply on their effective dates, including contingent liabilities of every type, which financial condition has not changed materially and adversely since those dates. Each Pledgor, other than a natural person, further represents that: (a) it is duly organized and validly existing under the laws of the state where it is organized and is in good standing in each state where it is doing business; and (b) the execution and delivery of this Pledge and the performance of the obligations it imposes (i) are within its powers and have been duly authorized by all necessary action of its governing body; and (ii) do not contravene the terms of its articles of incorporation or organization, its by-laws, or any agreement or document governing its affairs.

Notice. Any notices and demands under or related to this document shall be in writing and delivered to the intended party at its address stated herein, and if to the Bank, at its main office if no other address of the Bank is specified herein, by one of the following means: (a) by hand, (b) by a nationally recognized overnight courier service, or (c) by certified mail, postage prepaid, with return receipt requested. Notice shall be deemed given: (a) upon receipt if delivered by hand, (b) on the Delivery Day after the day of deposit with a nationally recognized courier service, or (c) on the third Delivery Day after the notice is deposited in the mail. "Delivery Day" means a day other than a Saturday, a Sunday, or any other day on which national banking associations are authorized to be closed. Any party may change its address for purposes of the receipt of notices and demands by giving notice of such change in the manner provided in this provision.

Pledge Agreement In Addition to other Pledge Agreements. This Pledge is in addition to and not in substitution or replacement of any other pledge agreement executed by the Pledgor in favor of the Bank, and the Bank's rights under this Pledge and any such other pledge agreement are cumulative.

Indemnification. The Pledgor agrees to indemnify, defend and hold the Bank, -its parent companies, subsidiaries, affiliates, their respective successors and assigns and each of their respective shareholders, directors, officers, employees and agents (collectively the "Indemnified Persons") harmless from and against any and all loss, liability, obligation, damage, penalty, judgment, claim, deficiency, expense, interest, penalties, attorneys' fees (including the fees and expenses of attorneys engaged by the Indemnified Person at the Indemnified Person's reasonable discretion) and amounts paid in settlement ("Claims") to which any Indemnified Person may become subject arising out of or relating to this Pledge or the Collateral, including any Claims

resulting from any Indemnified Person's own negligence, except to the limited extent that the Claims are proximately caused by the Indemnified Person's gross negligence or willful misconduct. The indemnification provided for in this paragraph shall survive the termination of this Pledge and shall not be affected by the presence, absence or amount of or the payment or nonpayment of any claim under, any insurance.

Miscellaneous. The Pledgor's obligations to the Bank under this Pledge are not subject to any condition, precedent or -subsequent, and shall not be released or affected by any change in the composition or structure of the Pledgor, including a merger or consolidation with any other person or entity. If more than one person or entity signs this Pledge as Pledgor, their obligations, covenants, representations and warranties are joint and several and the Collateral includes any property that is owned by any one or more of the undersigned, individually or jointly with any other person or entity. If more than one person or entity signs as the Pledgor or the Borrower, their obligations are joint and several arising out of or relating to this Pledge or the Collateral and each agreement representation, warranty and covenant shall be individual, joint and several and the "Collateral" includes any property that is owned by any Pledgor or the Borrower individually or jointly with any other. This Pledge is binding on the Pledgor and its heirs, successors and assigns, and is for the benefit of the Bank and its successors and assigns. The use of section headings does not limit the provisions of this Pledge.

Governing Law and Venue. This Pledge is delivered in the State of Ohio and governed by Ohio law (without giving effect to its laws of conflicts). The Pledgor and the Bank agree that any legal action or proceeding against it with respect to any of its obligations under this Pledge may be brought in any state or federal court located in such state, as the Bank in its sole discretion may elect. By the execution and delivery of this agreement, the Pledgor and the Bank submit to and accepts, for itself and in respect of its property, generally and unconditionally, the jurisdiction of those courts. The Pledgor and the Bank waive any claim that the State of Ohio is not a convenient forum or the proper venue for any such suit, action or proceeding.

WAIVER OF SPECIAL DAMAGES. THE PLEDGOR WAIVES, TO THE MAXIMUM EXTENT NOT PROHIBITED BY LAW, ANY RIGHT THE PLEDGOR MAY HAVE TO CLAIM OR RECOVER FROM THE BANK IN ANY LEGAL ACTION OR PROCEEDING ANY SPECIAL, EXEMPLARY, PUNITIVE OR CONSEQUENTIAL DAMAGES.

JURY WAIVER. THE PLEDGOR AND THE BANK HEREBY VOLUNTARILY, KNOWINGLY, IRREVOCABLY AND UNCONDITIONALLY WAIVE ANY RIGHT TO HAVE A JURY PARTICIPATE IN RESOLVING ANY DISPUTE (WHETHER BASED ON CONTRACT, TORT, OR OTHERWISE) AMONG THE PLEDGOR AND THE BANK ARISING OUT OF OR IN ANY WAY RELATED TO THIS PLEDGE OR ANY OF THE TRANSACTIONS CONTEMPLATED BY THIS DOCUMENT. THIS PROVISION IS A MATERIAL INDUCEMENT TO THE BANK TO PROVIDE OR CONTINUE PROVIDING THE FINANCING EVIDENCED BY THE BANK DEBT.

Dated: April 28, 2006

Pledgor:

SECURITY AGREEMENT

This Agreement is made as of June 30, 2006, by and between CHASE EQUIPMENT LEASING INC. ("CELI"), with CELI's mailing address being at 1111 Polaris Parkway, Suite A3 (OH1-1085), Columbus, Ohio 43240 and Debtor(s) identified below (individually and collectively, the "Debtor").

Debtor means: AMEDICA CORP.

Lease/Loan Customer: AMEDICA CORP.

1. Grant of Security Interest. For valuable consideration, receipt of which is hereby acknowledged, Debtor grants, pledges and assigns to CELI a security interest in all of Debtor's respective right, title and interest, purchase money as appropriate, in and to the property described below, now or hereafter arising or acquired, wherever located, together with any and all additions, accessions, parts, accessories, substitutions and replacements thereof, now or hereafter installed in, affixed to or used in connection with said property, in all products and proceeds thereof, cash and non-cash, including, but not limited to, proceeds of notes, checks, instruments, indemnity proceeds, or any insurance on such and any refund or rebate of premiums on such, and all books, records, ledger cards, files, correspondence, computer program, tapes, disks and related data processing software, owned by Debtor or in which it has an interest that at any time evidences or contains information relating thereto or is otherwise necessary or helpful in the collection thereof or realization thereupon ("Collateral"), to secure the prompt payment and complete performance of the Obligations (as hereinafter defined); provided, however, that the Collateral shall not include any Hazardous Materials (as hereinafter defined), except for any Hazardous Materials (a) which are and/or hereafter will be handled, stored and contained in accordance with all applicable Hazardous Materials Laws (as hereinafter defined) and (b) which either (i) are and/or will be hereafter used or useful in the ordinary course of business of Debtor or (ii) have a resale or salvage value which exceeds the cost of disposing of such Hazardous Materials.

The Collateral in which this security interest is granted is all of the Debtor's property described in **EXHIBIT A** attached hereto (and such terms as are used in Exhibit A shall be used in their broadest definitions and shall include, without limitation, the definitions of such terms as are found in the Uniform Commercial Code that governs security interests in any such property).

2. Secured Obligations. This Agreement secures the full and prompt performance of all obligations which any Lease/Loan Customer identified above (hereinafter individually and collectively called "Customer") and/or any Debtor now have or may hereafter have to CELI, including, but not limited to, obligations under equipment leases, promissory notes, loan agreements and guaranties executed in connection with equipment leases, promissory notes or loan agreements (including but not limited to all present and future leases, promissory notes, loan agreements and guaranties), and secures the prompt payment when due (whether at scheduled maturity, upon acceleration or otherwise) of any and all sums, indebtedness, obligations and liabilities of whatsoever nature, due or to

become due, direct or indirect, absolute or contingent, joint or several, now or hereafter at any time owed or contracted by any Customer or any Debtor to CELI and whether owing by any Customer or any Debtor alone or with one or more other customers, persons or other parties, and all costs and expenses of and incidental to collection of any of the foregoing, including reasonable attorneys' fees (all of the foregoing hereinafter called "Obligations"). It is Debtor's express intention that this Agreement and the continuing security interest granted hereby, in addition to covering all present Obligations of any Customer and/or any Debtor to CELI, shall extend to all future Obligations of any Customer and any Debtor to CELI, whether or not such Obligations are reduced or entirely extinguished and thereafter increased or are reincurred, and whether or not such Obligations are specifically contemplated by any Debtor and CELI as of the date hereof. The absence of any reference to this Agreement in any documents, instruments or agreements evidencing or relating to any Obligations secured hereby shall not limit or be construed to limit the scope of this Agreement.

3. Location(s) of Collateral. The Collateral will be kept at the location(s) set forth in **EXHIBIT B** attached hereto ("Location").
4. Representations, Warranties and Covenants. Debtor represents, warrants, covenants and agrees as follows:
 - (a) Debtor is and will continue to be (or, with respect to after acquired property, will be when acquired), the legal and beneficial owner of the Collateral free and clear of any lien, security interest, mortgage, charge or encumbrance except for the security interest created by this Agreement and/or any Permitted Lien. "Permitted Lien" means any other security interest in any of the Collateral in favor of the lienholder(s) that is/are identified on **EXHIBIT C** attached hereto and approved by CELI. Except as may be related to a Permitted Lien, no effective Uniform Commercial Code ("UCC") financing statement or other instrument covering all or any part of the Collateral is on file in any recording office, except those in favor of CELI;
 - (b) Debtor will join with CELI in executing such financing statements, security agreements or other instruments in form satisfactory to CELI upon CELI's request and, in the event for any reason the law of any jurisdiction becomes or is applicable to the Collateral or any part thereof, or to any Obligation owed to CELI. Debtor agrees to execute and deliver all such instruments and to do all of such other things as may be reasonably necessary or appropriate to preserve, protect and enforce the security interest and lien of CELI under the law of such jurisdiction to the extent such security interest would be protected under that jurisdiction's UCC and will pay all expenses of filing and releasing same in all public offices wherever filing is deemed necessary or desired by CELI;
 - (c) The Collateral will nor be attached or affixed to real estate in such a manner that it would become a fixture thereto or an accession to other goods without prior disclosure, notification to and approval by CELI in addition to the execution of an owner/mortgagee/landlord release/waiver in favor of CELI;

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- (d) Debtor at its sole expense shall keep each item of Collateral insured against all risks of loss or damage from every cause whatsoever for an amount not less than the greater of the full replacement value or the original cost of acquiring such item of Collateral. Debtor at its sole expense shall carry public liability and property damage insurance in amounts satisfactory to CELI protecting Debtor and CELI from liabilities for injuries to persons and damage to property of others relating in any way to the Collateral. Debtor at its sole expense shall carry environmental risk insurance should any of the collateral include Hazardous Materials. All insurers shall be reasonably satisfactory to CELI Debtor shall deliver to CELI satisfactory evidence of such coverage. Proceeds of any insurance covering damage or loss of the Collateral shall be payable to CELI as loss payee and shall, at CELI's option, be applied toward (a) the replacement, restoration or repair of the Collateral, or (b) payment of the obligations of Debtor under the Obligations. Proceeds of any public liability or property insurance shall be payable first to CELI as additional insured to the extent of its liability, then to Debtor. Debtor hereby appoints CELI as Debtor's attorney-in-fact with full power and authority in the place of Debtor and in the name of Debtor or CELI to make claim for, receive payment of, and sign and endorse all documents, checks or drafts for loss or damage under any such policy. Each insurance policy will require that the insurer give CELI at least 30 days prior written notice of any cancellation of such policy and will require that CELI's interests be continued insured regardless of any act, error, omission, neglect or misrepresentation of Debtor. The insurance maintained by Debtor shall be primary without any right of contribution from insurance which may be maintained by CELI. If Debtor does not keep the Collateral insured as required herein and/or fails to supply CELI with evidence of that insurance, CELI shall have the right, in its sole discretion, to obtain insurance in amounts sufficient to fully protect its interest, without notifying Debtor. Debtor agrees that CELI shall have the right, in its sole discretion, to determine the manner in which Debtor shall reimburse CELI for the premium for such insurance, including but not limited to (a) requiring Debtor to immediately reimburse CELI for the premium and other costs it incurs or (b) adding that amount directly to the principal balance of any of the Obligations. Debtor will pay interest on any amount added to the principal balance at the highest rate set forth in any of such Obligation(s);
- (e) Debtor will pay promptly when due all taxes, assessments and governmental charges upon or against Debtor, the Collateral or the property or operations of Debtor, in each case before same becomes delinquent and before penalties accrue thereon, unless and to the extent that same are being contested in good faith by appropriate proceedings. At its option, CELI may discharge taxes, liens or security interests or other encumbrances at any time placed on the Collateral and may pay for maintenance and preservation of the Collateral, all at Debtor's expense;
- (f) Debtor agrees it will, at its sole expense. (a) repair and maintain the Collateral in good condition and working order and supply and install all replacement parts or other devices when required to so maintain the Collateral or when required by

applicable law or regulation, which parts or devices shall automatically become part of the Collateral; (b) use and operate the Collateral in a careful manner in the normal course of its business and only for the purposes for which it was designed in accordance with the manufacturer's warranty requirements, and comply with all laws and regulations relating to the Collateral, and obtain all permits or licenses necessary to install, use or operate the Collateral; and (c) make no alterations, additions, subtractions, upgrades or improvements to the Collateral without CELI's prior written consent, but any such alterations, additions, upgrades or improvements shall automatically become part of the Collateral. The Collateral will not be used or located outside of the United States.

- (g) Debtor will, in the event of appropriation or taking of all or any part of the Collateral, give CELI prompt written notice thereof. CELI shall be entitled to receive directly, and Debtor shall promptly pay over to CELI, any awards or other amounts payable with respect to such condemnation, requisition or other taking and in its sole discretion may apply the proceeds as it deems best without regard to whether an Event of Default has or has not occurred;
- (h) At least thirty (30) days prior to the occurrence of the event, Debtor will deliver to CELI written notice of any addition change in Debtor's name, identity or legal structure;
- (i) Debtor will defend the Collateral against all claims and demands of all persons at any time claiming the same or an interest therein;
- (j) Debtor will from time to time execute and deliver to CELI such lists, descriptions and designations of Collateral as CELI may require to identify the nature, extent and location of the Collateral;
- (k) Debtor is in material compliance with all Federal, State and local laws, statutes, ordinances, regulations, rulings and interpretations relating to industrial hygiene, public health or safety, environmental conditions, the protection of the environment, the release, discharge, emission or disposal to air, water, land or ground water, the withdrawal or use of ground water or the use, handling, disposal, treatment, storage or management of or exposure to Hazardous Materials ("Hazardous Materials Laws"), the violation of which would have a material effect on its business, its financial condition or the Collateral. The term "Hazardous Materials" means any flammable materials, explosives, radioactive materials, pollutants, toxic substances, hazardous water, hazardous materials, hazardous substances, polychlorinated biphenyls, asbestos, urea formaldehyde, petroleum (including its derivatives, by-products or other hydrocarbons) or related materials or other controlled, prohibited or regulated substances or materials, including, without limitation, any substances defined or listed as or included in the definition of "hazardous substances", "hazardous wastes", "hazardous materials", "pollutants" or "toxic substances" under any Hazardous Materials Laws. Debtor has not received any written or oral communication or notice from

any judicial or governmental entity nor is it aware of any investigation by any agency for any violation of any Hazardous Materials Law;

- (l) All representations, warranties, covenants and agreements set forth herein and all information furnished by Debtor concerning the Collateral or otherwise in connection with the Obligations, shall be at the time same is furnished, accurate, correct and complete in all material respects as of the date hereof, on the date upon which Debtor acquires any of the Collateral or any rights therein not presently acquired or existing and shall continue until the Obligations are paid in full.
5. Appointment of Attorney-in-Fact. Debtor hereby irrevocably appoints CELI or its designee as Debtor's attorney in fact, with full authority in the place instead of Debtor, from time to time in CELI's discretion prior to, upon, during, and after an Event of Default, to take any action and to execute any instrument which CELI may deem necessary or advisable to accomplish the purposes of this Agreement, including without limitation, (a) to perfect and continue to perfect the security interests created by this Agreement; (b) to ask, demand, collect or sue for, recover, compound, receive and give acquittance in receipts for any monies due or become due under or in respect for any Collateral; (c) to receive, endorse and collect any drafts or other instruments, documents and chattel paper, in connection with the Collateral; and (d) to file any claims or take any action or institute any proceeding which CELI may deem necessary or desirable for the collection of any Collateral or otherwise to enforce the rights of CELI in the Collateral.
6. Events of Default. The following events shall be "Events of Default" under this Agreement: (a) default by Debtor in performance of any covenant or agreement herein; (b) any warranty, representation or statement made or furnished to CELI by or on behalf of Debtor in connection with this Agreement or to induce CELI to make a loan or extend other credit to Debtor, proving to have been false in any material respect when made or furnished; (c) default by Debtor or any other obligor in performance of any covenant or agreement contained in any Obligation; (d) default by Debtor or any other obligor in performance of any covenant or agreement contained in any letter or agreement executed in conjunction with any Obligation; (e) death, dissolution, termination of existence, insolvency, business failure, appointment of a receiver of any part of the property of, assignment for the benefit of creditors by or the commencement of any proceeding under any bankruptcy or insolvency laws by or against Debtor or any guarantor or surety for Debtor; (f) any uninsured loss, theft, damage or destruction of the Collateral; (g) the making of any levy, seizure or attachment of any Collateral; (h) refusal to surrender the Collateral as herein above provided; or (i) if CELI shall for any reason deem itself insecure as to the prospect of payment of any Obligation.
7. Rights upon Default. If any Event of Default shall occur, then:
 - (a) CELI may, at its option and without notice, declare the unpaid balance of any or all of the Obligations immediately due and payable and this Agreement and any or all of the Obligations in default;

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- (b) All payments received by Debtor under or in connection with any of the Collateral shall be held by Debtor in trust for CELI, shall be segregated from other funds of Debtor and shall forthwith upon receipt by Debtor be turned over to CELI in the same form as received by Debtor (duly endorsed by Debtor to CELI, if required). Any and all such payments so received by CELI (whether from Debtor or otherwise) may, in the sole discretion of CELI, be held by CELI, or then or at any time thereafter be applied in whole or in part by CELI against, all or any part of the Obligations in such order as CELI may elect;
- (c) CELI shall have the rights and remedies of a secured party under this Agreement, under any other instrument or agreement securing, evidencing or relating to the Obligations and under the UCC as adopted in the state where CELI's principal office is located or other applicable laws. Without limiting the generality of the foregoing, CELI shall have the right to take possession of the Collateral in full or in part and for that purpose CELI may enter upon any premises on which the Collateral may be situated and remove the Collateral therefrom;
- (d) Without demand of performance or other demand, advertisement or notice of any kind (except the notice(s) specified below regarding the time and place of public sale or disposition or time after which a private sale or disposition is to occur) to Debtor, any Obligor or any other person or entity (all and each of which demands, advertisements and/or notices are hereby expressly waived), CELI may forthwith collect, receive, appropriate and realize upon the Collateral, in full or in any part thereof, may abandon, not claim or not take possession of any Collateral, and/or may forthwith sell, lease, assign, give an option or options to purchase or sell or otherwise dispose of and deliver the Collateral (or contract to do so), or any part thereof, in one or more parcels at public or private sale(s) at any of CELI's offices or elsewhere at such price(s) as CELI may determine, for cash or on credit or for future delivery without assumption of any credit risk. CELI shall have the right upon any public sale(s), and, to the extent permitted by law, upon any such private sale(s), to purchase the whole or any part of the Collateral so sold, free of any right or equity of redemption of Debtor;
- (e) Debtor, at CELI's request, will assemble the Collateral and make it available to CELI at such place(s) as CELI may reasonably select, whether at Debtor's place(s) of business and/or the Location of Collateral or elsewhere. Debtor further agrees to allow CELI to use or occupy Debtor's place(s) of business and/or Location of Collateral, without charge, for the purpose of effecting CELI's remedies in respect to the Collateral;
- (f) CELI shall apply the net proceeds of any such collection, recovery, receipt, appropriation, realization or sale, after deducting all reasonable costs and expenses of every kind incurred in connection therewith or incidental to the care or safekeeping of any or all of the Collateral or in any way relating to the rights of CELI hereunder, including attorneys' fees and legal expenses, to the payment in whole or in part of the Obligations, in such order as CELI may elect, and only after or applying over such net proceeds and after the payment by CELI of any other amount required by any provision of law, need CELI account for the surplus, if any, to Debtor;

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- (g) To the extent permitted by applicable law, Debtor waives all claims, damages and demands against CELI arising out of the repossession, retention, sale or disposition of the Collateral;
- (h) Debtor agrees that CELI need not give more than ten (10) calendar days' notice, addressed to Debtor at Debtor's mailing address set forth above, of the time and place of any public sale or of the time after which a private sale may take place and that such notice is reasonable notification of such matters; and
- (i) Debtor shall remain liable for any deficiency if the proceeds of any sale or disposition of the Collateral are insufficient to pay all amounts to which CELI is entitled.
8. Processing of Collateral After an Event of Default. Debtor hereby agrees that CELI or its designee may do whatever CELI in its sole discretion deems to be commercially reasonable to prepare any Collateral for disposition and to dispose of any Collateral, including without limitation operating any of Debtor's manufacturing or other processes relating to the Collateral and using patents, copyrights, trademarks, trade names, trade secrets, rights under manufacturer's warranties, and the like relating to or affecting such processes or the Collateral and disposition thereof, and that Debtor shall not do anything which would restrict CELI's right so to act. CELI may transfer Collateral into its name or that of a nominee and receive the dividends, royalties or income thereof. CELI shall have no duty as to the collection or protection of the Collateral or any income therefrom, nor as the preservation of rights against prior parties, not as to the preservation of any right pertaining thereto.
9. Construction of Rights and Remedies and Waiver of Notice and Consent Unless otherwise expressly provided herein, (a) any right or remedy of CELI may be pursued without notice to or further consent of Debtor, both of which Debtor hereby expressly waives; (b) each right or remedy is distinct from but cumulative to each other right or remedy and may be exercised independently of concurrently with, or successively to any other right and remedy; (c) no extension(s) of time and/or modification(s) of amortization of any Obligation shall release the liability of or bar the availability of any right or remedy against Debtor, and CELI shall not be required to commence proceedings against Debtor or to extend time for payment or otherwise to modify amortization of any Obligation; and (d) CELI has the right to proceed at its election against any or all of the Collateral, against all such property together or against any items thereof from time to time, and not action against any item(s) of property shall bar subsequent actions against any other item(s) of property.
10. Extensions and Compromises. With respect to any Collateral or any Obligation, Debtor assents to all extensions or postponements to the time of payment thereof or any other indulgence in connection therewith, to each substitution, exchange or release of Collateral, to the release of any party primarily or secondarily liable, to the acceptance of

partial payment thereof or to the settlement or compromise thereof, all in such matter and such time or times as CELI may deem advisable. No forbearance in exercising any right or remedy on any one or more occasions shall operate as a waiver thereof on any future occasion; and no single or partial exercise of any right or remedy shall preclude any other exercise thereof or the exercise of any other right or remedy.

11. Indemnity and Expenses. (a) Debtor agrees to indemnify CELI from any and all claims, losses and liabilities growing out of or resulting from this Agreement; (b) Debtor will upon demand pay or reimburse CELI, as the case may be, the amount of any and all expenses, including fees and disbursements of counsel, experts and agents, which CELI may incur in connection with, (i) the administration of this Agreement; (ii) the custody, preservation, use or operation of, or the sale of, collections from, or other realization upon any Collateral; (iii) the exercise or enforcement of any of the rights of CELI hereunder; or (iv) the failure by Debtor to perform or observe any of the provisions hereof. Upon Debtor's failure to promptly pay any said amount, CELI may add said amount to the principal amount owed on any Obligation and charge interest on the same at the rate of interest as set forth in said Obligation; (c) Debtor shall fully and promptly pay, perform, discharge, defend, indemnify and hold harmless CELI from any and all claims, orders, demands, causes of action, proceedings, judgments, or suits and all liabilities, losses, costs or expenses (including, without limitation, technical consultant fees, court costs, expenses paid to third parties and reasonable legal fees) and damages arising out of, or as a result of (i) any release, discharge, deposit, dump, spill, leak or placement of any Hazardous Material into or on any Collateral or property owned, leased, rented or used by Debtor (the "Property") at any time; (ii) any contamination of the soil or ground water of the Property or damage to the environment and natural resources of the Property or the result of actions whether arising under any Hazardous Materials Law, or common law; or (iii) any toxic, explosive or otherwise dangerous Hazardous Materials which have been buried beneath or concealed with the Property. The indemnities set forth in this paragraph shall survive termination of this Agreement and shall be effective for the full dollar amount of any said cost, expense, etc., regardless of the actual dollar amount of any Obligation(s).
12. Miscellaneous. (a) Any notice, statement, request, demand, consent, or other document required to be given hereunder (any of which may be referred to as "notice") by either party shall be in writing and shall be delivered personally or by certified or registered mail, postage prepaid, return receipt requested, to the last known address of said party. When personally delivered, any notice shall be deemed given when actually received. Except as otherwise provided herein, a notice shall be deemed given when mailed. Any mailed notice given pursuant to this section shall be deemed reasonable and shall be effective, regardless of whether actually received. (b) This Agreement shall be construed and interpreted under the laws of the State of Ohio. (c) This Agreement shall be binding upon Debtor, Debtor's personal representatives, heirs, successors and assigns, as the case may be, and shall be binding upon the inure to the benefit of CELI and its successors and assigns. Debtor cannot assign this Agreement. (d) This Agreement may be amended, but only by a written amendment signed by CELI and Debtor. (e) If any provisions of this Agreement or the application of any provision to any party or circumstance shall, to any extent, be adjudged invalid or unenforceable, the application of the remainder of such

provision to such party or circumstance, the application of such provision to other parties or circumstances, and the application of the remainder of this Agreement shall not be affected thereby. (f) The headings contained in this Agreement have been inserted for convenience of reference only and are not to be used to interpreting this Agreement. (g) Where appropriate, the number of all words in this Agreement shall be both singular and plural and the gender of all pronouns shall be masculine, feminine, neuter, or any combination thereof. (h) A carbon, photographic or other reproduction of this Agreement or a financing statement shall be sufficient as a financing statement and may be filed as such whenever necessary or desirable, in CELI's opinion, to perfect the security interest granted by this Agreement. (i) CELI may correct patent errors herein, may fill in any blank spaces herein and may date this Agreement. (j) If more than one signer executes this instrument, the word "Debtor" as used herein shall be deemed to include all such signers, and all of the warranties, representations, covenants and obligations hereof shall be joint and several of and for all such signers. (k) This Agreement shall take effect when signed by Debtor. (1) Time is of the essence of all requirements of Debtor hereunder.

ALL PARTIES TO THIS AGREEMENT, INCLUDING DEBTOR AND CELI; IRREVOCABLY CONSENT TO THE JURISDICTION AND VENUE OF ANY STATE OR FEDERAL COURT IN FRANKLIN COUNTY, OHIO, AND WAIVE ALL RIGHTS TO TRIAL BY JURY, IN ANY ACTION, PROCEEDING OR COUNTERCLAIM BROUGHT BY ANY PARTY AGAINST ANY OTHER PARTY ON ANY MATTER WHATSOEVER ARISING OUT OF, IN CONNECTION WITH OR IN ANYWAY RELATED TO THIS AGREEMENT.

AMEDICA CORP.
(Debtor)

Accepted and Agreed to:

CHASE EQUIPMENT LEASING INC.

By: Eugene B. Jones
Title: VP- Finance
Address: 615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108
Witness: Linda L. Lamoreaux

By: /s/ Mary Short
Title: Funding Manager

EXHIBIT A

Description of Collateral

All of the property of Amedica Corp. (“Debtor”) described below, now or at any time hereafter owned or acquired by Debtor, wherever located, whether in possession of Debtor, warehousemen, bailees or any other person and whether located on Debtor’s premises or elsewhere and all replacements, substitutions, attachments, accessions and additions to any such property of Debtor together with all Proceeds (all of the foregoing referred to, collectively, as the “Collateral”). “Proceeds” shall mean whatever is received or receivable when any of the Collateral is (or proceeds thereof are) sold, leased, collected, exchanged or otherwise disposed of, whether such disposition is voluntary or involuntary, including, without limitation, (a) all cash and non-cash proceeds and products of any of the foregoing, including all monies and deposit accounts, and (b) all accounts, chattel paper, instruments, general intangibles and rights to payment of every kind now or at any time hereafter arising out of any such sale, lease, collection, exchange or other disposition of any of the foregoing.

1. All equipment, tools, machinery, furnishings, furniture, and other goods and fixtures (and all manufacturer’s manuals and maintenance books and records relating to any of the foregoing) and all improvements, replacements, substitutions, attachments, accessions and additions thereto.

EXHIBIT B

Permitted Locations of Collateral
560 Arapeen Drive, Suite 100
Salt Lake City, UT 84108
Salt Lake County

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PRODUCT DEVELOPMENT AND LICENSE AGREEMENT

THIS PRODUCT DEVELOPMENT AND LICENSE AGREEMENT (“Agreement”) is made and entered into this 20th day of December, 2006 (“Effective Date”), by and between AMEDICA CORPORATION, having its principal offices at 615 Arapeen Drive, Salt Lake City, Utah 84108 (“AMEDICA”), and DYTECH CORPORATION LTD, having its principal offices at Stopes Road, Stannington, Sheffield, S6 6BW England (“DYTECH”).

WITNESSETH

WHEREAS, AMEDICA is a medical device manufacturing firm with expertise in the design and development of dense and porous ceramic components with and without bioactive coatings for use as implantable orthopedic devices;

WHEREAS, DYTECH is an industrial manufacturing firm with expertise in the design, development and manufacture of ceramic components, and is the owner of certain Patent Rights (defined as “Patent Rights” in Article 1) and Process Know-how (defined as “Process Know-how” in Article 1) relating to the production of ceramic components;

WHEREAS, DYTECH desires to develop ceramic components for use by AMEDICA in AMEDICA’s orthopedic devices to enable rapid and effective commercialization by AMEDICA in AMEDICA’s Field of Use;

WHEREAS, AMEDICA desires to continue the development and manufacture of AMEDICA’S orthopedic devices and to scale up manufacturing of such devices;

WHEREAS, AMEDICA desires to obtain from DYTECH, and DYTECH desires to provide to AMEDICA, an exclusive license to Patent Rights and Process Know-how to be used in the manufacture of Products (defined as “Products” in Article 1) upon the terms and conditions hereinafter set forth

NOW, THEREFORE, the Parties hereby agree as follows:

ARTICLE 1 - Definitions

“**Affiliate**” shall mean, with respect to an entity, a Person that directly, or indirectly through one or more intermediaries, controls, is controlled by, or is under common control with, the entity. For purposes of this definition only, the terms “controls,” “controlled,” and “control” mean the direct or indirect ability or power to direct or cause the direction of the management and policies of an entity or otherwise direct the affairs of such entity, whether through ownership of equity, voting securities, or other ownership interests, by contract, or otherwise. A Person shall be deemed to have the ability or power to direct or cause the direction of the management and policies of an entity or otherwise direct the affairs of an entity if the first person or entity directly, or indirectly through one or more intermediaries, has beneficial ownership of at least [*****] of the voting securities of the entity (or other comparable ownership interest for an entity other than a corporation).

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company’s application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

“**AMEDICA’s Field of Use**” shall mean the Applications and markets for the Products.

“**AMEDICA’s Technology**” shall mean AMEDICA’s Confidential Information relating to the formulation, fabrication, design, manufacturing processes and techniques, formula’s, ideas, inventions, innovations, discoveries, concepts, know how, engineering and research data, preclinical and clinical data, material specifications, drawings, descriptions, reports, prototypes and records of Products. AMEDICA’s Technology shall not include any confidential information, materials, concepts, processes, procedures, products, designs, or manufacturing methods developed, used or practiced, in the past, present or future by DYTECH or its affiliates, exclusive or independent of AMEDICA’s Technology

“**Applicable Laws**” shall mean all applicable federal, state, local and foreign laws, ordinances, rules and regulations.

“**Applications**” shall mean all medical and healthcare applications.

“**Calendar Year**” shall mean the twelve-month period ending on December 31.

“**Confidential Information**” shall have the meaning set forth in Section 7.1 hereof.

“**Control**” or “**Controlled**” shall mean with respect to any Patent Rights or Technology, the possession by a Party of the ability to grant a license or sublicense of such Patent Rights, or Technology as provided for herein without violating the terms of any arrangement or agreements between such Party and any Third Party.

“**Developed Technology**” shall mean all Technology that is jointly developed, discovered, or conceived during the term of this Agreement by one or more employees, agents, partners or independent contractors of AMEDICA and one or more employees, agents, partners or independent contractors of DYTECH. “Developed Technology,” however, shall not include AMEDICA’s Technology or Process Know-how or DYTECH’s Technology or Process Know-how.

“**DYTECH’s Field of Use**” shall mean all uses outside AMEDICA’s Field of Use.

“**DYTECH’s Technology**” shall mean DYTECH’s Confidential Information relating to formulation, fabrication, design, manufacturing processes and techniques, formula’s, ideas, inventions, innovations, discoveries, concepts, know how, engineering and research data, preclinical and clinical data, material specifications, drawings, diagrams, descriptions, reports, prototypes and records relating to porous and dense ceramic materials which may be incorporated into Products. DYTECH’s Technology shall not include any confidential information, materials, concepts, processes, procedures, products, designs, or manufacturing methods developed, used, or practiced, in the past, present or future by AMEDICA, exclusive or independent of DYTECH’s Technology.

“**FDA Clearance**” means receipt by AMEDICA of all approvals (including pricing and reimbursement approvals), product and establishment licenses, registrations or authorizations of any kind of the United States Food and Drug Administration and any successor agency or authority thereto necessary for the marketing and sale of Products for use in AMEDICA’s Field of Use.

“**Group**” shall mean a group of related Persons deemed a “person” for purposes of Section 13(d) of the United States Securities Exchange Act of 1934, as amended.

“**Improvement**” shall mean all Technology related to the Process Know-how or Technology claimed in the Patent Rights, which is Controlled by DYTECH after the Effective Date and during the term of this Agreement, other than Technology Controlled as a result of the licenses granted hereunder by AMEDICA and in no event will “Improvement” include Developed Technology.

“**Net Sales**” shall mean the gross invoiced sales price for all Products sold by AMEDICA or its Affiliates or Sublicensees to Third Parties throughout the Territory during each calendar quarter, less the following amounts incurred or paid by AMEDICA or its Affiliates or Sublicensees during such calendar quarter with respect to sales of Products regardless of the calendar quarter in which such sales were made:

(a) trade, cash and quantity discounts or rebates actually allowed or taken, including discounts or rebates to governmental or managed care organizations;

(b) any charges for insurance, freight, and other transportation costs directly related to the delivery of Product to the extent included in the gross invoiced sales price;

(c) any tax, tariff, duty or governmental charge levied on the sales, transfer, transportation or delivery of a Product (including any tax such as a value added or similar tax or government charge) borne by the seller thereof, other than franchise or income tax of any kind whatsoever; and

(d) any import or export duties or their equivalent borne by the seller.

“Net Sales” shall not include sales or transfers between AMEDICA and its Affiliates or Sublicensees, unless the Product is consumed or sold by the Affiliate or Sublicensee.

For the avoidance of doubt, where a Product is a component of a multi-component orthopedic device, Net Sales of the Product shall be calculated based on the gross invoice sales price of the Product, and not the gross invoice sales price of the entire, multi-component device. The amounts subtracted from the gross invoice sales price of the Product in such situation shall be the pro rata portions of the amounts identified in clauses (a) through (d) above which are attributable to the Product, based on the ratio of the gross invoice sales price of the Product to the aggregate of the gross invoice sales prices of the other components of the multi-component device. AMEDICA will use commercially reasonable efforts in each case to reflect on its invoice for a multi-component device the separate gross invoice sales prices of each component thereof, including each Product that is a component of the device. As an example of the foregoing, a total hip replacement implant device is a multi-component orthopedic device, comprised of (i) an acetabular cup, which could be a Product, and (ii) at least two other components, which are the stem and the femoral head. The Parties anticipate that, as a general rule, each of the Product and the other components of the total hip replacement implant device will be reflected as a separate

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invoice line item in the overall invoice for the device, and therefore in this example, “gross invoiced sales price” as used in the definition of Net Sales will be equal to the invoice line item price of the acetabular cup only. In circumstances where the gross invoice sales prices of the separate components of a multi-component device are not separately reflected in the invoice, AMEDICA will determine in good faith the gross invoice sales price of the Product or Products that are components of such device, based on invoice practices for similar multi-component devices where the gross invoice sales prices of the components are separately set forth.

“**Party**” shall mean AMEDICA or DYTECH, as the case may be. When used in the plural form, the term means both AMEDICA and DYTECH.

“**Patent Rights**” shall mean (a) the patents and patent applications listed on Exhibit A to this Agreement, (b) any patents and patent applications claiming any Improvement that AMEDICA has elected to include as “Patent Rights,” as provided in Article 3 or claiming any Process Know-how, not included in the foregoing clause (a), and (b) all divisions, continuations, continuations-in-part, reissues, substitutes, extensions, supplemental protection certificates, reexaminations, and provisionals of any of the foregoing in clause (a) or (b) above in the United States and all counterparts in foreign countries.

“**Person**” shall mean an individual, partnership, firm, corporation, limited liability company, joint venture, association, trust or other entity or any government agency or political subdivision thereof, as well as any Group.

“**Process Know-how**” shall mean all Technology related to Technology claimed in the Patent Rights and related to Products, Controlled by DYTECH as of the Effective Date.

“**Products**” shall mean ceramic parts made partially or wholly from [*****

*****] for use as separately implantable orthopedic devices, such as an intervertebral spacer, or as components of a multi-component orthopedic device, such as a hip, knee or spine replacement device.

“**Sublicense**” shall mean a sublicense granted by AMEDICA (or a Sublicensee) for a license under AMEDICA’S license rights under Article 3 of this Agreement.

“**Sublicense Income**” shall mean all consideration received by AMEDICA from Sublicensees for the grant of a sublicense pursuant to Section 3.3, including, but not being restricted to, down payments, license fees or option payments but excluding (a) bona fide payments made by a Sublicensee in consideration for the issuance of equity or debt securities of AMEDICA, (b) bona fide payments made by a Sublicensee to support or fund research activities to be undertaken by AMEDICA, (c) royalties payable on Net Sales as set forth in Section 3.6, (i) payments made upon the achievement by AMEDICA or Sublicensee of specified milestones or benchmarks relating to the development of the Products sublicensed to Sublicensee, except to the extent that in the case of items (d) above, such payments are in consideration for the grant or exercise of a sublicense under the Patent Rights. If non-monetary consideration is so received, then a commercially reasonable monetary value will be assigned for purposes of calculating

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DYTECH's share of Sublicense Income. "Sublicense," for purposes of determining Sublicense Income, shall in no event include any distribution arrangement in which AMEDICA (or a Sublicensee) sells Products to a Third Party for resale (even if such distribution arrangement includes an express or implied sublicense to the Third Party to distribute, sell, have sold or otherwise commercialize Product).

"**Sublicensee**" shall mean any Person to which AMEDICA grants a Sublicense, as well as any Person to which such Sublicensee grants a Sublicense.

"**Technology**" means and includes all inventions, discoveries, materials, information, data, formulations, techniques and know-how, whether or not patentable or copyrightable, including any negative results.

"**Territory**" shall mean the entire world.

"**Third Party**" shall mean any Person other than DYTECH, AMEDICA, or an Affiliate of either of them.

ARTICLE 2 - Product Development

Section 2.1. **Product Development Projects and Statements of Work** - From time to time hereunder, the Parties may work on one or more product development projects. For each such project, the Parties will prepare a written project plan in the form of a Statement of Work (SOW). As a minimum, the SOW shall contain the following elements:

- A detailed description of the Project;
- Any design documents, conceptual or engineering drawings, material, process and manufacturing specifications;
- Project deliverables;
- Tasks, responsibilities and agreements of each Party relating to the Project;
- Deadlines, interim milestones relating to performance under the Project;
- Reasonable costs and expenses relating to DYTECH's performance of the SOW to be paid for by AMEDICA according to Section 2.2 below.

Each SOW must be signed by both Parties to be effective and shall thereafter be attached to this Agreement as a part of Exhibit B. Each Party shall designate at least one Project Manager to act as the principal point of contact between the two Parties with respect to this Agreement, and to oversee performance on each SOW. Both AMEDICA and DYTECH shall use commercially reasonable efforts to accomplish their respective tasks and objectives in accordance with the SOW(s).

The first project plan and SOW pursuant to the execution of this Agreement shall be related to the transfer of Patent Rights and Process Know-how for Products from DYTECH to AMEDICA by way of the licensing agreements detailed in Article 3 below.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

Notwithstanding any other provision contained herein to the contrary, all Technology developed, conceived or reduced to practice by DYTECH or both Parties pursuant to any SOW, shall be Developed Technology for all purposes hereunder.

Section 2.2. Expenses - All reasonable and customary expenses incurred by DYTECH in performing its obligations as part of the SOW(s) of this Agreement shall be borne and paid for by AMEDICA. DYTECH will provide to AMEDICA, and the Parties will mutually agree to these expenses prior to initiation of each SOW, or upon re-direction of work by revision or additional SOW(s). DYTECH shall invoice AMEDICA for all such expenses on a monthly basis and AMEDICA shall pay the invoices within [*****] thereof. Otherwise, each Party shall bear all of its own fees, expenses, and/or costs of any kind hereunder unless expressly noted herein to the contrary or as agreed to in writing by both Parties from time to time.

Section 2.3. Independent Contractor - The Parties acknowledge that they are independent contractors. Each Party further acknowledges that it does not consider any of its employees to be an employee of, or affiliated with, the other Party, and accordingly, such employees are not entitled to employment benefits from the other Party.

Section 2.4. Non-Competition - [*****]
[*****], DYTECH shall not, directly or indirectly, on its own behalf or on behalf of any Person other than AMEDICA, whether as agent, employee, consultant or in any other capacity, develop, design or manufacture, or provide any services involving the development, design or manufacture, of any products that compete with any Product within AMEDICA's Field of Use. Nothing in this Agreement shall restrict or preclude DYTECH from acting in the above or other capacities to develop, design or manufacture, or provide any services involving the development, design or manufacture, related to items or products utilizing Patent Rights, Process Know-how, or Developed Technology solely within DYTECH's Field of Use.

ARTICLE 3 - License Grant

Section 3.1. License Grant - DYTECH hereby grants to AMEDICA an exclusive (even as to DYTECH itself) license to Patent Rights, Process Know-how, and Improvements (pursuant to Section 3.2 below) including the right to grant Sublicenses, to develop, have developed, make, have made, use, have used, import, have imported, sell, offer for sale, have sold, market, commercialize, distribute and otherwise dispose of Products for all uses within AMEDICA's Field of Use within the Territory.

Section 3.2. License to Improvements - During the term of this Agreement, DYTECH shall deliver to AMEDICA a reasonably detailed written description of any Improvement (the "Improvement Notice"). The Improvement Notice shall be delivered to AMEDICA as soon as practicable after DYTECH develops or discovers the Improvement, but in any event prior to disclosure of such Improvement to any Third Party (except DYTECH'S own professional Third Party patent advisors and lawyers, each of which will be subject to written confidentiality obligations no less stringent than those contained herein). AMEDICA shall have the exclusive right and option, exercisable for a period of [*****] after its receipt of the Improvement Notice, to include the Improvement within the scope of the exclusive license grant

of Section 3.1 above by delivering to DYTECH a written notice (the "Exercise Notice") to such effect. If AMEDICA delivers an Exercise Notice for any Improvement, the scope of the exclusive license grant of Section 3.1 above shall, without any further payment by AMEDICA, be deemed to include such Improvement thereafter.

Section 3.3. Sublicenses - AMEDICA shall have the right to grant sublicenses of any of the rights granted to AMEDICA under this Article 3 to any Third Party; provided, however that no Sublicense shall be inconsistent with the terms of this Agreement. AMEDICA shall provide DYTECH with a copy of any Sublicense agreement(s) promptly upon full execution. In accordance with the provisions of Section 3.8 below, AMEDICA shall pay to DYTECH [***] of Sublicense Income received pursuant to any Sublicense of Patent Rights and Process Know-how granted hereunder for a period of [*****] from the effective date of any such Sublicense agreement.

Section 3.4. Applicability of Bankruptcy Code - The foregoing license shall be deemed to be, for purposes of Section 365(n) of the United States Bankruptcy Code and any foreign equivalent thereof, a license of rights to "intellectual property" as defined therein. AMEDICA, as licensee of such rights, shall have the rights and elections with respect thereto as specified in the United States Bankruptcy Code and any foreign equivalent thereof. This Agreement shall be deemed to be an "agreement supplemental to" the license for purposes of Section 365(n) and any foreign equivalent thereof. If a bankruptcy proceeding is commenced by or against DYTECH (or any Party comprising DYTECH) and DYTECH (or a trustee or other Party acting on its behalf) thereafter rejects this Agreement or fails to perform all of its obligations under this Agreement, then AMEDICA shall be entitled to receive, promptly upon request therefore, a complete duplicate of (or full access to) any such intellectual property and all embodiments thereof.

Section 3.5. License Fees - Subject to the terms and conditions of this Agreement, and in consideration of the rights granted by DYTECH under this Agreement, AMEDICA shall pay DYTECH a total of \$250,000 in three installments, non-refundable once paid, as follows: (i) the first shall be in the amount of \$50,000 and due upon execution of this Agreement by both Parties; (ii) the second shall be in the amount of \$100,000 and due upon completion of the transfer from DYTECH of Patent Rights and Process Know-how for Products to AMEDICA pursuant to the first SOW; (iii) the third shall be in the amount of \$100,000 and due within 30 days after FDA Clearance of the first Product in the United States which uses Patent Rights and Process Know-how. AMEDICA shall promptly notify DYTECH in writing of the FDA Clearance date for this first Product. Target dates for these payments are February 2007, December 2007, and June 2008 respectively; provided, however, such dates are estimates provided by the Parties and do not represent obligations of AMEDICA or rights of DYTECH.

Section 3.6. Royalties - Subject to the terms and conditions of this Agreement, and in consideration of the rights granted by DYTECH under this Agreement:

- (i) AMEDICA shall pay DYTECH a [*****] royalty on Net Sales on each Product sold by AMEDICA or its Affiliates or its Sublicensees that was produced, wholly or partially, using DYTECH's Patent Rights and Process Know-how for a period of [*****] from the commercial launch of Products in the United States. Potential royalties, as stated by AMEDICA for a single spinal implant product, following

successful incorporation of DYTECH technology into AMEDICA's product range, are listed in Exhibit C; provided, however, such royalty amounts are estimates and do not represent obligations of AMEDICA or rights of DYTECH.

(ii) Notwithstanding the royalty rates specified in Section 3.6(i) above, no royalties shall accrue upon the disposition of Products by AMEDICA (a) to its Affiliates or its Sublicensees as samples (promotion or otherwise), (b) as donations (for example, to nonprofit institutions or government agencies), (c) or use in investigative trials, or (d) as replacement Products. AMEDICA shall be entitled to a credit for any Product returned to AMEDICA for which (and in an amount equal to) any royalty payments were paid previously.

Section 3.7. Affiliate Sales - In the event that AMEDICA transfers Product to one of its Affiliates for resale of the Product to end-users, there shall be no royalty due at the time of transfer. Subsequent sales of Product by the Affiliate shall be subject to royalty payments by AMEDICA as provided in this Agreement.

Section 3.8. Reports; Royalty and Sublicense Payments - During the term of this Agreement, for so long as royalty or other payments are due, AMEDICA shall furnish to DYTECH a quarterly written report for each calendar quarter showing a summary of Products sold by AMEDICA, its Affiliates and its Sublicensees during the calendar quarter and the royalties or Sublicense Income payable to DYTECH by AMEDICA under this Agreement. Reports shall be due on the [*****] following the close of each calendar quarter. Royalties and Sublicense Income shown to have accrued by each report, if any, shall be due and payable on the date such report is due. AMEDICA may offset against any such payments (i) any damages, determined by an arbitrator or a court of competent jurisdiction, suffered by AMEDICA as a result of any breach of this Agreement by DYTECH. AMEDICA shall keep complete and accurate records in sufficient detail to enable the royalties and Sublicense Income under this Agreement to be determined. Late payments shall bear interest at an annual rate equal to the [*****] rate (as published in the [*****] The Wall Street Journal, Eastern edition, as of the date upon which the payment was due and payable).

Section 3.9. Audits.

(i) Upon the written request of DYTECH and not more than once in each Calendar Year, AMEDICA shall permit an independent certified public accounting firm selected by DYTECH and consented to in writing by AMEDICA, which consent shall not be unreasonably withheld, conditioned or delayed, to have, upon at least [*****] notice to AMEDICA, access during normal business hours to AMEDICA'S records that are reasonably necessary to verify the accuracy of the basis for the License Fees and Royalties under Section 3.5 and Section 3.6 and Sublicense Income under Section 3.3 of this Agreement. The accounting firm shall disclose to DYTECH only whether the reports are correct or incorrect and the specific details concerning any discrepancies. DYTECH shall, and shall require the accounting firm, in a written form approved by AMEDICA, to agree to, treat all information subject to review under this Section in accordance with the confidentiality provisions of this Agreement. DYTECH shall provide AMEDICA with an executed copy of the accounting firm's written confidentiality agreement.

(ii) If the actual royalty payments for the Calendar Year in question were more or less than they should have been, an adjusting payment shall be made by the appropriate Party, with interest payable at an annual rate of the [*****] rate (as published in the [*****] The Wall Street Journal, Eastern edition) from the date of original payment or the date the payment should have been made, as applicable, to the date of adjustment. The fees charged by such accounting firm shall be paid by DYTECH; provided, however, that the reasonable fees and expenses of the accounting firm shall be paid by AMEDICA, if an error in favor of DYTECH of more than the greater of (1) [*****] or (2) [*****] of the royalties due under this Agreement is discovered for the Calendar Year in question.

Section 3.10. Payment; Exchange Rate - All payments to DYTECH under this Agreement shall be made in United States dollars to the credit of DYTECH at a bank to be designated in writing by DYTECH from time to time.

Section 3.11. Tax Withholding - If laws, rules or regulations require withholding of income taxes or other taxes imposed upon payments set forth in this Article 3, DYTECH shall provide AMEDICA, prior to any such payment, with all forms or documentation required by any applicable taxation laws, treaties or agreements applicable to such withholding or as necessary to claim a benefit thereunder, and AMEDICA shall only make such withholding payments as are required and only subtract such withholding payments as are required from the payments set forth in this Article 3.

Section 3.12. Records Retention - Each Party shall record in written or electronic form (i) all material information with respect to the performance of its obligations relating to the project plans and SOWs, (ii) Sales of Products which use Patent Rights and any other information upon which payments are to be calculated, (iii) all information required to be maintained under Applicable Laws, and (iv) all other information reasonably required for the performance or administration of this Agreement. To the extent applicable, such records shall be maintained in a form sufficient to satisfy regulatory authorities. Except as otherwise required by Applicable Laws, the information required to be recorded pursuant to clause (i) above shall be retained for [*****], the information required to be recorded pursuant to clauses (ii) and (iii) above shall be retained for [*****], and the information required to be recorded pursuant to clause (iv) above shall be retained for a reasonable period determined by reference to the purpose for which such information is required.

Section 3.13. For the avoidance of doubt, on a Product-by-Product basis, upon expiration of AMEDICA's payment obligations pursuant to this Article 3, the license granted to AMEDICA pursuant to Section 3.1 above, thereafter automatically shall be perpetual and fully paid up for such Product.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

ARTICLE 4 - Limitation of Liability

NEITHER DYTECH NOR AMEDICA SHALL UNDER ANY CIRCUMSTANCES BE LIABLE TO EACH OTHER OR THEIR RESPECTIVE AFFILIATES FOR ANY INCIDENTAL, INDIRECT, CONSEQUENTIAL, SPECIAL OR PUNITIVE DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF PRODUCTION TIME, LOST REVENUES, LOST PROFITS, LOST SAVINGS, OR OTHER SIMILAR DAMAGES, ARISING OUT OF THIS AGREEMENT AND THE PARTY'S PERFORMANCE OF ITS OBLIGATIONS HEREIN, EVEN IF EITHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION SHALL REMAIN IN FULL FORCE AND EFFECT REGARDLESS OF WHETHER THE REMEDIES HEREIN ARE DETERMINED TO HAVE FAILED OF THEIR ESSENTIAL PURPOSE.

EACH PARTY EXPRESSLY DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARISING OUT OF ITS PERFORMANCE OR ATTEMPTED DEVELOPMENT PURSUANT TO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING CONTAINED HEREIN TO THE CONTRARY, DYTECH ONLY AUTHORIZES AMEDICA TO USE ANY SAMPLES OF MATERIALS AND/OR COMPONENTS IT MAY SUPPLY TO AMEDICA FOR THE PURPOSE OF AMEDICA'S RESEARCH, DEVELOPMENT AND REGULATORY APPROVAL EFFORTS IN ACCORDANCE WITH ALL APPLICABLE LAWS AND SUCH SAMPLES ARE NOT TO BE USED FOR ANY OTHER PURPOSE BY AMEDICA. IT IS UNDERSTOOD BY THE PARTIES THAT SUCH SAMPLES OR COMPONENTS PROVIDED ARE EXPERIMENTAL IN NATURE AND ARE SUPPLIED SOLELY FOR USE IN NON-HUMAN *IN VIVO* OR NON-*IN VIVO* TESTING. IT IS ALSO UNDERSTOOD BY THE PARTIES THAT AMEDICA OR CONTRACT MANUFACTURERS ENGAGED BY AMEDICA, AND NOT DYTECH SHALL MANUFACTURE ALL PRODUCTS FOR AMEDICA'S FIELD OF USE.

NEITHER PARTY WARRANTS NOR REPRESENTS THAT ANY PRODUCT, APPARATUS OR PROCESS CONCEIVED, DEVELOPED, OR USED IN ACCORDANCE WITH THIS AGREEMENT DOES NOT INFRINGE ANY INTELLECTUAL PROPERTY RIGHTS OF ANY THIRD PARTY. EACH PARTY WILL, HOWEVER, NOTIFY THE OTHER PARTY PROMPTLY IF A PARTY HAS A REASONABLE BASIS FOR BELIEVING THAT ANY SUCH PRODUCT OR PROCESS WOULD INFRINGE ANY INTELLECTUAL PROPERTY RIGHT OF A THIRD PARTY.

ARTICLE 5 - Indemnification

Section 5.1. AMEDICA agrees to indemnify, defend and hold harmless DYTECH, and its Affiliates, and their respective shareholders, directors, officers, employees, agents, representatives and contractors (each, a "DYTECH Indemnitee") from and against, any and all liabilities, damages, claims, demands, losses, judgments, actions, causes of actions, lawsuits, proceedings, costs and expenses (including attorneys' fees) to which any DYTECH Indemnitee becomes subject and which directly arose out of Third Party claims regarding (a) the design, development, manufacture, assembly or sale of Products, including all the use of warnings,

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labels and instructions required by Applicable Laws and regulations to be affixed to Products, by AMEDICA, (b) any material breach of this Agreement by AMEDICA, or (c) the gross negligence or willful misconduct of AMEDICA, in any such case under this Section 5.1, except to the extent such damages arose out of a material breach of this Agreement by DYTECH, or DYTECH'S gross negligence or willful misconduct.

Section 5.2. [*****

*****].

Section 5.3. Indemnification Procedures - In the event that any Indemnitee is seeking indemnification under Section 5.1 or 5.2 above from a Party (the "Indemnifying Party"), the Indemnitee shall notify the Indemnifying Party of such claim with respect to such Indemnitee as soon as reasonably practicable after the Indemnitee receives notice of the claim, and the Indemnitee shall permit the Indemnifying Party to assume direction and control of the defense of the claim (including the right to settle the claim solely for monetary consideration) and shall cooperate as requested (at the expense of the Indemnifying Party) in the defense of the claim. The indemnification obligations under Article 5 shall not apply to any harm suffered as a direct result of any delay in notice to the Indemnifying Party hereunder or to amounts paid in settlement of any claim, demand, action or other proceeding if such settlement is effected without the consent of the Indemnifying Party, which consent shall not be withheld or delayed unreasonably. The Indemnitee, its employees and agents, shall reasonably cooperate with the Indemnifying Party and its legal representatives in the investigation of any claim, demand, action or other proceeding covered by Section 5.1 or 5.2. The Indemnifying Party, without the consent of the Indemnitee, shall not settle any claim, demand, action or other proceeding covered by Section 5.1 or 5.2 unless such settlement obtains the full and unconditional release of the Indemnitee and its Affiliates, and their respective shareholders, directors, officers, employees, agents, representatives and contractors.

ARTICLE 6 - Assignment of Technology and Applications:
Patent Filing, Prosecution and Maintenance

Section 6.1. It is agreed by the Parties that, subject to the license provided to DYTECH pursuant to Section 6.2 below, all right, title and interest in and to any and all Developed Technology shall be solely owned by AMEDICA. During the term of this Agreement, and thereafter, whenever requested in writing to do so by AMEDICA, DYTECH shall:

- (i) Execute any and all applications, bills of sale, assignments, and other instruments which AMEDICA shall deem reasonably necessary to apply for and obtain letters, patent or other protection for the Developed Technology and Products;

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

(ii) Render reasonable requested aid and assistance in any U.S. or European Patent and Trademark Office proceeding or litigation pertaining to the Developed Technology, and Products within AMEDICA's Field of Use; and

(iii) Assign and convey to AMEDICA or its nominee the sole and exclusive and royalty-free right, title and interest in and to the Developed Technology, subject to Section 2.4 above and Section 6.2 below.

DYTECH hereby irrevocably appoints AMEDICA (or AMEDICA's designee) as DYTECH's attorney-in-fact to act for and on behalf of DYTECH to take whatever actions and execute whatever documents are deemed necessary or appropriate in AMEDICA's sole opinion to carry out DYTECH's obligations under this Article 6 of this Agreement in the event that DYTECH is unable, unwilling or unavailable to do so.

All expenses reasonably incurred by DYTECH in connection with this ARTICLE 6 shall be borne or paid by AMEDICA in accordance with Section 2.2 above.

The parties acknowledge that this agreement to assign rights to AMEDICA shall not apply to any invention for which no AMEDICA equipment, supplies, or facilities were used and which was or is developed by DYTECH exclusive of AMEDICA's Technology and without the creative or inventive contribution of AMEDICA.

Section 6.2. DYTECH License to Developed Technology. AMEDICA agrees to grant and does hereby grant to DYTECH the exclusive, worldwide, royalty-free right to Developed Technology to make, have made, make for others, use, sell, offer for sale, import, or otherwise commercially transfer products, that are not Products, within DYTECH's Field of Use throughout the Territory.

Section 6.3. Patent Filing, Prosecution and Maintenance. Subject to the other terms of this Section 6.3, DYTECH shall be responsible for preparing, filing, prosecuting, obtaining and maintaining (collectively, "Patent Efforts"), at its sole expense and discretion, and using patent counsel reasonably acceptable to AMEDICA, all Patent Rights. DYTECH (i) will provide AMEDICA with a copy of any proposed patent application within the Patent Rights and relevant to AMEDICA's Field of Use for review and comment reasonably in advance of filing, which shall under no circumstances be less than thirty (30) days, and (ii) will keep AMEDICA reasonably informed of the status of its Patent Efforts, including, without limitation, (A) by providing AMEDICA with copies of all communications received from or filed in patent office(s) with respect to Patent Rights, and (B) by providing AMEDICA, a reasonable time prior to taking or failing to take any action that would affect the scope or validity of Patent Rights (including the substantially narrowing, cancellation or abandonment of any claim(s) without retaining the right to pursue such subject matter in a separate application, or the failure to file or perfect the filing of any claim(s) in any country), with prior written notice of such proposed action or inaction so that AMEDICA has a reasonable opportunity to review and comment, which comments will be considered in good faith by DYTECH. If DYTECH fails to undertake or chooses not to undertake any Patent Efforts with respect to any invention under such Patent Rights or otherwise chooses to abandon, allow to lapse or cease maintenance of any of the Patent Rights, then DYTECH will notify AMEDICA thereof in writing not less than ninety (90) days prior to the last date for taking any action required to preserve such Patent Rights. AMEDICA will have the opportunity to purchase such Patent Rights, at an agreed market price, in which case

DYTECH would assign to AMEDICA all of its rights to such Patent Rights and any subsequently issued patents thereon in the applicable country or countries, each of which thereafter will be owned solely by AMEDICA subject to all other existing licenses.

ARTICLE 7 - Confidentiality / Publicity

Section 7.1. Confidentiality.

(a) Confidential Information. As used in this Agreement, the term “Confidential Information” means (a) any information other than that excluded in paragraph (c), below, designated as such in writing by either Party, whether by letter or by the use of an appropriate proprietary stamp or legend, prior to or at the time any such confidential or proprietary materials or information are disclosed by either Party and (b) all Confidential Information, as defined in that certain Confidential Disclosure Agreement by and between the Parties dated May 15, 2006 (the “CDA”). Notwithstanding the foregoing, information or materials which are orally or visually disclosed by one Party to the other, or are disclosed in a writing or other tangible form without an appropriate letter, proprietary stamp or legend, shall constitute Confidential Information if the Disclosing Party, within thirty (30) days after such disclosure, delivers to the Receiving Party a written document or documents describing such information or materials and referencing the place and date of such oral, visual, written or other tangible disclosure.

(b) Non-disclosure of Confidential Information. Each Party shall hold in confidence and shall not disclose any Confidential Information, except (i) as expressly permitted under this Agreement, or (ii) as required by applicable law or legal process, in which instance the Receiving Party shall provide the Disclosing Party with prior written notice of any such disclosure so that the Disclosing Party can seek an appropriate protective order. The Receiving Party shall disclose such Confidential Information only to its employees and consultants, and to those employees and consultants of its affiliates (i.e., another business entity which directly or indirectly controls, is under the control of, or is under common control with, the Receiving Party), who have a need to receive such Confidential Information in order to participate in the performance of this Agreement, are apprised of the confidential nature of the Confidential Information and are, or have agreed in writing to be, bound by the provisions of this Agreement. The Receiving Party shall use Confidential Information only for the purpose for which it was disclosed and shall not use or exploit such Confidential Information for the Receiving Party’s own benefit or for the benefit of another without the prior written consent of the Disclosing Party, including without limitation, for the filing or support of any patent application. The obligations of the Receiving Party pursuant to this Section shall survive for a period of [*****] from and after termination of this Agreement pursuant to Article 10 below.

(c) Limitation on Obligations. The obligations specified in Section shall not apply with respect to any information, which the Receiving Party can establish by written records:

- (i) was already in the Receiving Party’s possession prior to disclosure hereunder;
- (ii) is or becomes available to the public through no wrongful act of the Receiving Party

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company’s application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

(iii) is disclosed, without restriction on further disclosure, to the Receiving Party by a Third Party having no duty of confidentiality with respect to such information whether to the Disclosing Party or to another Party, and having the legal right to disclose such information;

(iv) is approved for release by written authorization of an officer of the Disclosing Party; or,

(v) has been developed by or for the Receiving Party independently by person having no access to the Confidential Information.

Section 7.2. Publicity - AMEDICA shall have the right to control all publicity and publications of all data, findings and information related to the Developed Technology within AMEDICA's Field of Use and Products without approval of DYTECH subject to the confidentiality provisions contained herein.

ARTICLE 8 - Patents/Enforcement of Patent Rights

Section 8.1. DYTECH Representations and Warranties - DYTECH hereby represents and warrants to AMEDICA as follows:

(i) Patent Rights - DYTECH owns, or holds valid rights to use the Patent Rights and Process Know-how. DYTECH has fully disclosed, or will fully disclose within thirty (30) days of the Effective Date, to AMEDICA all Process Know-how for which DYTECH has written documentation. DYTECH represents and warrants that it is the sole and exclusive owner of all right, title and interest in and to the Patent Rights and Process Know-how.

(ii) No Infringement - No Person has asserted a claim, formal or informal, against DYTECH that (a) challenges the validity of DYTECH's interest in the Patent Rights or Process Know-how, (b) alleges that DYTECH's use of the Patent Rights or Process Know-how infringes, misappropriates or violates the rights of any Person, or (c) seeks to enjoin or restrain DYTECH's use of the Patent Rights or Process Know-how in any manner that would interfere with the successful execution and completion of this Agreement. To the best of DYTECH's knowledge, no Person has a meritorious basis for any such claim.

(iii) Licenses - DYTECH has the right to grant to AMEDICA the licenses to the Patent Rights or Process Know-how, or contemplated to be granted, by this Agreement, DYTECH has not, prior to the date of this Agreement, granted to any other Person a license under any of the Patent Rights or Process Know-how for Products or a covenant not to sue with respect to any of the Patent Rights or Process Know-how for Products.

(iv) No Other Agreements - DYTECH represents and warrants that DYTECH does not presently have, and will not hereafter enter into, any agreements with other Parties that are inconsistent with this Agreement.

Section 8.2. Infringement by Third Parties - If any of the Patent Rights acquired by AMEDICA for Products after the Effective Date of this Agreement is infringed and/or misappropriated by a Third Party, the Party first having knowledge of such infringement/misappropriation shall promptly notify the other Party in writing. The notice shall set forth the facts of such infringement and/or misappropriation in reasonable detail.

Section 8.3. Prosecution of Infringement Actions.

(i) AMEDICA shall have the primary right, but not the obligation, to institute, prosecute and control any claim, action or proceeding with respect to any infringement/misappropriation of any of the Patent Rights related to Products (an "Infringement Action"), by counsel of its own choice, at AMEDICA's sole expense. DYTECH shall cooperate with AMEDICA at AMEDICA's request in the prosecution of any such Infringement Action. In such event, DYTECH shall have the right to be represented in that Infringement Action by counsel of its own choice and at DYTECH's expense.

(ii) If AMEDICA fails to bring an Infringement Action within a period of [*****] after receiving written notice from DYTECH or otherwise having knowledge of the infringement/misappropriation of any of such Patent Rights, as described in Section 8.3(i) above, DYTECH shall have the right to bring and control the Infringement Action by counsel of its own choice and at DYTECH's expense. In such event, AMEDICA shall have the right to be represented in that Infringement Action by counsel of its own choice and at AMEDICA's expense.

(iii) No settlement, consent judgment or other voluntary final disposition of an Infringement Action under this Section 8.3 may be entered into without the joint consent of AMEDICA and DYTECH (which consent shall not be unreasonably withheld, conditioned or delayed).

(iv) If AMEDICA brings an Infringement Action, any damages or other monetary awards recovered by AMEDICA shall be applied first to defray all of the costs and expenses incurred in the Infringement Action, and second to AMEDICA in reimbursement for lost sales (net of royalties) associated with Products and to DYTECH in reimbursement for lost royalties owing hereunder based on such lost sales. If any balance remains, AMEDICA shall pay DYTECH an amount equal to [*****] of such balance.

(v) If AMEDICA fails to bring an Infringement Action and DYTECH brings an Infringement Action, any damages or other monetary awards recovered by DYTECH shall be applied first to defray all of the costs and expenses incurred in the Infringement Action, and second to AMEDICA in reimbursement for lost sales (net of royalties) associated with Products and to DYTECH in reimbursement for lost royalties owing hereunder based on such lost sales. If any balance remains, DYTECH shall pay AMEDICA an amount equal to [*****] of such balance.

Section 8.4. Patent Marking - AMEDICA shall mark all packaging, advertisements and promotional literature for Products which use Patent Rights with the appropriate patent numbers or as “patent pending”, as the case may be.

ARTICLE 9 - - Representations, Warranties and Covenants

Section 9.1. Representations, Warranties and Covenants of DYTECH - DYTECH hereby represents warrants and covenants as follows:

- (i) To its knowledge, DYTECH has not heretofore made, and will not hereafter make, any contract or commitment contrary to the terms of this Agreement or in derogation of the rights acquired or to be acquired hereunder by AMEDICA;
- (ii) DYTECH has the full power and authority to enter into and be bound by the terms and conditions of this Agreement;
- (iii) DYTECH shall promptly disclose in writing to AMEDICA any advancements, improvements, and/or modifications to Developed Technology relevant to AMEDICA’s Field of Use within [*****] after conception thereof,
- (iv) Subject to the provisions of Article 5, DYTECH shall indemnify AMEDICA against any loss, damage, cost, or expense that it may suffer or incur as a result of any breach of the representations, warranties or covenants of DYTECH contained in this Agreement; and
- (v) DYTECH agrees that the representations and warranties of DYTECH contained in this Agreement shall survive the termination or cancellation of this Agreement for [*****] thereafter.

Section 9.2. Representations, Warranties and Covenants of AMEDICA - AMEDICA hereby represents warrants and covenants as follows:

- (i) AMEDICA will reasonably cooperate with DYTECH in providing information and feed-back regarding the quality of the Products to reasonably assist DYTECH in performing its obligations in this Agreement;
- (ii) AMEDICA has the power and authority to enter into and be bound by the terms and conditions of this Agreement;
- (iii) AMEDICA shall promptly disclose in writing to DYTECH any advancements, improvements, and/or modifications to Developed Technology relevant to DYTECH’S Field of Use within [*****] after conception thereof,
- (iv) Subject to the provisions of Article 5, AMEDICA will indemnify DYTECH against any loss, damage, cost, or expense that it may suffer or incur as a result of any breach of the representations, warranties or covenants of AMEDICA contained in this Agreement; and

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company’s application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

(v) AMEDICA agrees that the representations, warranties and covenants of AMEDICA contained in this Agreement shall survive the termination or cancellation of this Agreement for [*****] thereafter.

Section 9.3. Diligence - AMEDICA will exercise commercially reasonable efforts and diligence in developing and commercializing Products in AMEDICA's Field of Use in the Territory, such reasonable efforts and diligence to be in accordance with the efforts and resources AMEDICA would use for a product candidate owned by it or to which it has rights, which is of similar market potential as the applicable Product, taking into account the competitiveness of the marketplace, the proprietary position of the Product, the relative potential safety and efficacy of the Product, the cost of goods and availability of capacity to manufacture and supply the Product at commercial scale, the profitability of the applicable Product, and other relevant factors including, without limitation, technical, legal, scientific or medical factors. In the event that AMEDICA fails to use due diligence as required hereunder, then on a Product-by-Product and country-by-country basis as to the Product in the country in which AMEDICA has failed to use due diligence as required hereunder, and subject to the provisions of Section 11.4 hereof, DYTECH may convert the licenses granted under Section 3 of this Agreement from exclusive licenses to non-exclusive licenses, in either case only as such licenses apply to such Product in such country, which conversion shall be effective upon the later of expiration of the cure period specified in Section 10.2 below provided that such failure remains uncured upon such expiration, or final resolution under Section 11.4 if applicable.

ARTICLE 10 - Term and Termination

Section 10.1. Duration - This Agreement shall commence on the Effective Date specified above and, unless terminated as provided herein, remain in force for as long as AMEDICA continues to have payment obligations hereunder.

Section 10.2. Termination - This Agreement may be terminated as follows:

(i) By either Party upon providing written notice of a material breach by the other Party of any material representation or obligation contained in this Agreement, and failure of that Party to remedy such breach within [*****], in the case of breach of a payment obligation, or [*****] in the case of any other representation or obligation, after receipt of written notice of such breach, which shall include but is not limited to, any failure of either DYTECH or AMEDICA to perform their obligations contained in this Agreement

(ii) AMEDICA shall have the right to terminate this Agreement at any time upon [*****] written notice to DYTECH. On termination under this clause AMEDICA will compensate Dytech for loss of royalties and Sublicensees income. The level of compensation will be negotiated in good faith at the time of termination.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

(iii) By either Party upon providing written notice if the other Party files for bankruptcy, makes an assignment for the benefit of creditors, appoints or suffers appointment of a receiver or trustee over its property, files a petition under any bankruptcy or insolvency act or has any such petition filed against it which is not discharged within [*****] of the filing thereof, then the other Party may terminate this Agreement effective immediately upon [*****] written notice to such Party.

Section 10.3 Effects of Termination. Upon termination pursuant to this Article 10, AMEDICA shall pay DYTECH reasonable costs, if any, payable under Article 2 or for completion of the project DYTECH is working on at the time of such termination notice only, and AMEDICA shall not be obligated to pay DYTECH any amounts for project work which DYTECH has not commenced at the time of such termination notice, and DYTECH and AMEDICA shall be relieved of all further obligations under Section 2 of this Agreement. Upon termination pursuant to this Article 10, AMEDICA shall also continue to pay DYTECH any amounts due or which will eventually fall due under any provision of Article 3 and DYTECH shall do nothing to prevent the continued commercial exploitation of Patent Rights and Process Know-how by AMEDICA in AMEDICA's Field of Use as AMEDICA has so far achieved, it being understood that the license granted to AMEDICA under Article 3 shall from such termination become non-exclusive and be restricted only to those areas of AMEDICA's Field of Use which have been commercialized as of the date of termination.

Section 10.4 Loss of Exclusivity. In the event that no Product incorporating the Technology claimed in the Patent Rights or Process Know-how is successfully commercialized within [*****] of the Effective Date, DYTECH shall have the right, upon [*****] prior written notice to AMEDICA (the "Nonexclusive Date"), to convert the exclusive licenses provided hereunder into non-exclusive licenses; provided, however such three-year period will be increased to four years if clinical trials are required by the applicable regulatory authority for FDA Clearance. For the avoidance of doubt, as of the Nonexclusive Date, the exclusive licenses provided in Sections 3.1 and 6.2 shall be non-exclusive and (a) DYTECH shall be free to non-exclusively license the Patent Rights, Process Know-how and Improvements to Third Parties without any obligation to AMEDICA, and (b) AMEDICA shall be free to non-exclusively license Developed Technology to Third Parties without any obligation to DYTECH.

ARTICLE 11 - Miscellaneous Provisions

Section 11.1. Relationship of the Parties - Nothing contained in this Agreement shall be construed to place the Parties in a relationship of partners, joint venturers, or principal and agent. Neither Party is authorized to assume or undertake any obligation of any kind, express or implied, on behalf of the other Party.

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Section 11.2. Notices - All notices, requests and other communications hereunder shall be in writing, shall be addressed to the receiving party's address set forth below or to such other address as a party may designate by notice hereunder, and shall be either (i) delivered by hand, (ii) made by facsimile transmission (to be followed with written fax confirmation), (iii) sent by private courier service providing evidence of receipt, or (iv) sent by registered or certified mail, return receipt requested, postage prepaid. The addresses and other contact information for the parties are as follows:

If to DYTECH:

Dytech Corporation Ltd
Stopes Road
Stannington, Sheffield
S6 6BW England
Facsimile:
Attention:

With a copy to:

If to AMEDICA:

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt lake City, UT 84108

With a copy to:

Jonathan L. Kravetz, Esq.
Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.
One Financial Center
Boston, MA 02111

All notices, requests and other communications hereunder shall be deemed to have been given either (i) if by hand, at the time of the delivery thereof to the receiving party at the address of such party set forth above, (ii) if made by facsimile transmission, at the time that receipt thereof has been acknowledged by the recipient, (iii) if sent by private courier, on the third (3rd) business day after such notice is delivered to the courier service, or (iv) if sent by registered or certified mail, on the fifth (5th) business day following the day such mailing is made.

Section 11.3. Governing Law - In the event of any dispute hereunder, the laws of the United States of America, State of Delaware shall govern the validity, performance, enforcement and any other aspect of this Agreement, notwithstanding any jurisdiction's choice of rules to the contrary.

Section 11.4. Arbitration - If any matter involving claims and/or disputes or other questions arising out of, or relating to this Agreement or to a breach hereof or default hereunder cannot be settled by mutual agreement within thirty (30) days following notice by one Party to the other that such Party deems a claim, dispute, question, breach or default to have arisen hereunder, such matter shall be settled by arbitration in accordance with the then current Commercial Arbitration Rules of the American Arbitration Association, by a sole arbitrator, and the Parties expressly waive their rights to a trial by jury of such claims and/or disputes. The arbitration shall be governed by the United States Arbitration Act, 9 U.S.C. §§1-16, and judgment upon the award rendered by the arbitrator may be entered by any court having jurisdiction thereof. The place of arbitration shall be in the State of Delaware, United States of America. The arbitrator is not

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empowered to award punitive damages or damages in excess of compensatory damages and each Party hereby irrevocably waives any right to recover such damages with respect to any dispute resolved by arbitration.

Section 11.5. Assignment - This Agreement shall be binding upon and inure to the benefit of the Parties hereto, their successors and assignees. AMEDICA or DYTECH shall not assign any of its rights or obligations hereunder without the prior written consent of the other; provided, however, that either Party may, without the written consent of the other, assign this Agreement and its rights and delegate its obligations hereunder to its Affiliates, or in connection with the transfer or sale of all or substantially all of such Party's assets or business related to this Agreement, or in the event of its merger, consolidation, change in control or similar transaction. Any permitted assignee shall assume all obligations of its assignor under this Agreement. Any purported assignment in violation of this Section 11.5 shall be void. The terms and conditions of this Agreement shall be binding upon and inure to the benefit of the permitted successors and assigns of the Parties.

Section 11.6. Severability - Should any part of this Agreement be declared invalid or illegal by a court or other competent authority having jurisdiction over the matter and any part hereof, such decision shall not affect the validity of any remaining portion hereof which shall remain in full force and effect as if the invalid portion were never a part of this Agreement when it was executed.

Section 11.7. Waiver of Breach - The waiver or failure of either Party to exercise in any respect any right provided under this Agreement shall not be deemed to be a waiver of any future right hereunder.

Section 11.8. Modification - This Agreement may not be modified or altered except by written instrument duly executed by both AMEDICA and DYTECH.

Section 11.9. Entire Agreement - This Agreement contains the entire agreement of the Parties hereto with respect to the subject matter hereof and shall be deemed to supersede all prior agreements, whether written or oral, including without limitation the CDA.

Section 11.10. Limitations. Except as expressly set forth in this Agreement, neither Party grants to the other Party any right or license to any of its intellectual property.

Section 11.11. Force Majeure. Neither Party shall be liable for failure of or delay in performing obligations set forth in this Agreement, and neither shall be deemed in breach of its obligations, if such failure or delay is due to natural disasters or any causes beyond the reasonable control of such Party. In event of such force majeure, the Party affected thereby shall use reasonable efforts to cure or overcome the same and resume performance of its obligations hereunder.

Section 11.12. Further Assurances. Each Party agrees to execute, acknowledge and deliver such further instructions, and to do all such other acts, as may be necessary or appropriate in order to carry out the purposes and intent of this Agreement.

Section 11.13. Counterparts. This Agreement may be executed simultaneously in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement as of the date first above written.

AMEDICA CORPORATION

DYTECH CORPORATION LTD

By: /s/ Bryan McEntire

By: /s/ T.M. O'Brien

Title: Vice President, Mfg.

Title: Director

Date: December 27, 2006

Date: December 20, 2006

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Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

Patent Rights

[See attached “DYTECH CORPORATION LTD US Patents and Equivalents”]

A-1

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DYTECH CORPORATION LTD

US Patents and Equivalents

Base UK Patent	Title	US Patent	Countries	Number	Status
[*****] [*****]	[*****]	[*****]	[*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****]	[*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****]	[*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****] [*****]
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Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

UNITED STATES PATENT

[*****]
[*****]

Inventors: [*****]
[*****]
[*****]
[*****]
[*****]

Assignor: [*****]
[*****]

Appl. No: [*****]

Date Filed: [*****]

Related US Application Data

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US PATENT DOCUMENTS

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Patent Number: [*****]
Date of Patent: [*****]

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Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

UNITED STATES PATENT

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Inventors: [*****]
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Assignor: [*****]
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Appl. No: [*****]

Date Filed: [*****]

Related US Application Data

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Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

UNITED STATES PATENT

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[*****]

Inventors: [*****]
[*****]
[*****]
[*****]
[*****]

Assignor: [*****]
[*****]

Appl. No: [*****]

Date Filed: [*****]

Related US Application Data

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US PATENT DOCUMENTS

[*****]

[BAR CODE]

Patent Number: [*****]

Date of Patent: [*****]

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FOREIGN PATENT DOCUMENTS

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Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

Form of Statement of Work

**Collaborative Product Development Agreement
Between AMEDICA CORPORATION and DYTECH CORPORATION LTD**

SOW No. and Rev.: AMEDICA Project Manager:
Effective Date: DYTECH Project Manager:

Project Description:

Design Documents, Drawings, Material, Process and Manufacturing Specifications:

Project Deliverables:

Tasks, Deadlines, Milestones and Responsibilities:

DYTECH'S Cost & Expenses:

SOW Approvals

Name _____ **Signature** _____ **Date** _____

B-1

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EXHIBIT C

The following approximate annual royalties are predicted following successful incorporation of DYTECH technology in a single spinal implant within AMEDICA's product range based on a royalty level of [*****] of net sales value.

2006:	Initial License Fee	-	\$	150k
2007:	Final License Fee	-	\$	100k
2008:	Royalty Payment	-		[*****]
2009:	Royalty Payment	-		[*****]
2010:	Royalty Payment	-		[*****]
2011:	Royalty Payment	-		[*****]

[Note to Dytech: Given uncertainties in Amedica's business plan, it was decided that the estimates above were appropriate for this purpose. The actual royalty payments may be higher or lower, but closer estimates are not predictable at this time.]

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DEVELOPMENT AGREEMENT

This Development Agreement (this "Agreement") is made and entered into as of the 8th day of May, 2004 (the "Effective Date"), by and between AMEDICA CORP., a Delaware corporation ("Amedica"), and Jeffrey C. Wang, M.D. ("Wang").

RECITALS:

A. Amedica is in the business of designing, developing and selling various products and applications for medical and biomedical uses and from various materials, including the use of advanced ceramic materials.

B. Amedica desires to continue to encourage, through collaboration among two or more professionals ("Collaborators"), the conceiving, development, testing, marketing and dealing with novel devices for implant in or use with the spine in medical and surgical procedures ("Devices"), whether manufactured from ceramic materials or other materials.

C. Wang is an orthopedic surgeon having knowledge and expertise relating to the spine.

D. The parties desire to enter into arrangements between the parties to assist in the future development, approval, trial and clinical use of Devices.

NOW, THEREFORE, for and in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree and represent as follows:

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1. Definitions. For purposes of this Agreement, the following terms shall have the following definitions:

a. "Development Services" means the development and related services as requested by Amedica relating to the conceptualization, development, testing, approval and related matters involving the Devices more fully described in Section 2, below.

b. "Devices" means all ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials, whether or not patentable, including all rights to obtain, perfect or enforce any proprietary interests therein, in the Field of Interest, which Wang, whether alone or in concert with others, may conceive, reduce to practice or develop during the Term (or, if based on or related to any confidential or proprietary information of Amedica, within [*****] after the termination of this Agreement), alone or in conjunction with another, or others, whether during or out of regular business hours, and whether at the request or upon the suggestion of Amedica, or otherwise. These Devices include but are not limited to those items more fully identified on Schedule A attached hereto.

c. "Field of Interest" means the development, testing and commercializing of biomedical or surgical devices, covered by current Amedica patent applications and further Amedica developments, and utilizing ceramic materials, intended for use in diagnosing, preventing or treating diseases or conditions affecting the spine or related structure or tissues or any applications thereof. Amedica may expand or

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otherwise change the definition of its Field of Interest at any time, as long as this expansion continues to be related to ceramic materials, which new definition will be binding upon Wang ten (10) days after written notice to Wang thereof.

d. "Collaborators" refer to the list of professionals more fully identified on Schedule B attached hereto.

2. Cooperative Development Arrangements. The parties intend that Wang, in collaboration and cooperation with the Collaborators shall diligently perform the Development Services and provide reasonable input and expertise from Wang and each Collaborator hereunder. The Development Services shall include, without limitation, the following

a. Examining and reviewing the characteristics of the Devices and the nature of the materials with which the Devices are constructed.

b. Providing expertise in ideas and testing pertaining to the Devices, and coordination with other Amedica personnel and third parties related to such testing, as requested by Amedica.

c. Providing guidance and assistance in the clinical details of the Devices.

d. Using commercially reasonable efforts to generate interest in the Devices from companies who may seek to enter into a transaction with Amedica relating to the Devices.

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e. Assisting in the filing of provisional patents and other patents pertaining to the Devices as determined by Amedica.

f. Assisting in applying for or otherwise seeking regulatory approval for the Devices or surgical processes for their implantation or other use.

3. Term and Termination.

a. The term (the "Term") of this Agreement shall commence as of the Effective Date and shall continue until the later of: (i) ten (10) years from the date hereof; or (ii) the expiration of patent rights on the Devices, unless earlier terminated as provided hereunder.

b. Either party has the right to terminate this Agreement at any time upon thirty (30) days' prior written notice to the other. In such event, Amedica shall be obligated to continue to pay royalty payments earned for Devices resulting from Wang's Development Services up to the date of termination.

c. Upon the death or termination of another Collaborator, not resulting in the termination of the Agreement by Wang and any other Collaborator, this Agreement shall continue (subject to Subsection 3(b) above) as to Wang and remaining Collaborator(s); provided, that the remaining parties to this Agreement shall, as soon as reasonably possible, negotiate in good faith any modifications to Wang's duties and compensation as may be appropriate under the circumstances.

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4. Compensation for Assignment and Sale Proprietary Rights. As full consideration for the Development Services and any assignment of right in Devices to Amedica pursuant to Section 9 hereof, Amedica shall pay Wang the total of the following:

a. Wang shall, in the form of royalty or similar payments, receive an equal share of the total of up to [*****] of the Net After-Tax Profits as separately agreed among Wang, Amedica and the other Collaborators; provided, that this is subject to the provisions of Subsections 4(c) and 4(d) below. "Net After-Tax Profits" is defined as that portion of profits received by Amedica attributable to sale of Devices, after deducting from all gross proceeds from such sales the costs and expenses attributable to the development, testing, marketing and sale of the Devices (but not including any Amedica overhead or expenses unrelated to the Devices), and less all sales, use, occupation or excise taxes and all income taxes applicable to income generated from the Devices.

b. Wang's respective share of the Net After-Tax Profits shall be determined by Wang and Amedica, in good faith, based upon Wang's contribution to the final form of the Devices, relative to the contributions of Amedica, other Collaborators and any third parties. Such share shall be calculated on a monthly basis, with payment to Wang of each monthly amount no later than the last day of the following month.

c. Upon Wang's death, or upon letters from two independent physicians that Wang is disabled and unable to perform the nature of the Development Services hereunder, this Agreement shall terminate as to Wang; provided, that Wang (or Wang's surviving spouse or estate) shall continue to be entitled to receive the royalties as provided herein, applicable to all Devices completed for marketing prior to the date of death or disability.

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d. Notwithstanding any provision herein to the contrary, income used for calculating royalties payable to Wang hereunder shall not include any sales attributable to the use of any Devices by any hospital or surgical center where Wang (or a partner, shareholder, employed or contracting physician) currently practices medicine.

No provision under this Agreement, either overtly or covertly, directly or indirectly, requires or contemplates that Wang make any recommendations to Wang's patients or health care facilities with respect to Amedica's Devices or other products. There shall be no adjustment to the percentage of royalties, or the rate of any other compensation, if any, resulting from the presence of or absence of, any recommendations of Amedica's Devices or other products to Wang's patients or health care facilities by Wang.

e. Amedica shall maintain separate accountings relating to the Devices. Wang shall, at all times, have reasonable access to examine Amedica's books and records relating to the Devices.

f. Wang acknowledges that the payment provisions of this Section 4 represent the sole agreement between the parties with regard to Wang's compensation for all Development Services and any assignment of rights to the Devices; and Amedica shall not be obligated to make, or otherwise be liable for, any additional payment of compensation or reimbursement of expenses with regard to Development Services or the Devices or other similar type payment. It is the parties' intent that this Agreement

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provide for the “sale or exchange of a capital asset” by Wang to Amedica under Internal Revenue Code Section 1235 entitled “Sale or Exchange of Patents,” and that all payments made to Wang hereunder shall be taxed as long-term capital gains. Nothing in this Agreement to the contrary shall imply that the parties intend that the payments to Wang hereunder shall be for anything other than the transfer of all proprietary rights that Wang may have in the Devices. Amedica is making no warranties or representations, however, as to ultimate taxability of the payments to Wang hereunder.

5. Facilities. To the extent necessary, Amedica shall provide Wang office space, equipment, telephone, secretarial help and all other equipment and related services necessary for the performance of the Development Services hereunder.

6. Exclusivity. Amedica acknowledges that Wang has other professional business and investment dealings in addition to his responsibilities under this Agreement and that Wang will not be required to devote his time exclusively to his responsibilities hereunder. Notwithstanding any provision herein to the contrary, Wang agrees that during the Term, Amedica shall have the exclusive right to the Devices.

7. Confidentiality.

a. Both during the Term and following termination of this Agreement for any reason, except as necessary for the performance of the Development Services hereunder, Wang shall not, at any time or in any manner, directly or indirectly, use, divulge, disclose or communicate to any third-person or entity any information that was disclosed to or developed by Wang during the course of performing the Development

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Services and which is not generally available to the public, including, without limiting the generality of the foregoing: information regarding matters affecting or relating to Amedica's business or its Devices; the nature of Amedica's properties or products, whether developed or under development; the identity of Amedica's customers; prices which Amedica obtains or has obtained with respect to its products or services; information as to Amedica's discussions, negotiations and/or dealings with actual or potential third-party buyers, investors, licensees or co-venturers; Amedica's costs, overhead or profit margin; or Amedica's operational methods or its business plans and processes. All material as such will be labeled "confidential".

b. Records. Promptly following termination of this Agreement, Wang shall deliver to Amedica any and all property of Amedica which may be in his possession including products, materials, memoranda, notes, records, reports, writings, drawings, diskettes, models and other materials or other documents or photocopies of the same in any tangible form whatsoever constituting confidential or proprietary information of Amedica, and any of the foregoing in intangible form.

8. Covenant Not to Compete.

a. Certain Acknowledgments and Agreements. Wang recognizes and acknowledges the competitive and proprietary nature of Amedica's business operations. Wang acknowledges and agrees that a business will be deemed competitive with Amedica if it engages in a line of business in which it develops, manufactures or sells any products provided or offered by Amedica or any similar products, or products fulfilling the same function, in the Field of Interest (such business to be referred to as a "Competitive Business").

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b. Wang agrees that during the Term and for an additional [*****] after termination of this Agreement (which period shall be tolled during the period of any violation or breach of any of the provisions hereof and for a period of [*****] thereafter), whether such termination is voluntary or involuntary, Wang shall not:

(i) for his benefit, or on behalf of any other person or entity, directly or indirectly, as principal, agent, stockholder, employee, consultant, representative or in any other capacity, own, manage, operate or control, or be concerned, connected or employed by, or otherwise associate in any manner with, engage in or have a financial interest in any Competitive Business anywhere in the continental United States of America (the "Restricted Territory"), except that nothing contained herein shall preclude Wang from purchasing or owning securities of any such business if such securities are publicly traded, and provided that his holdings do not exceed one percent (1%) of the issued and outstanding securities of any class of securities of such business; or

(ii) either individually or on behalf of or through any third party, solicit, divert or appropriate or attempt to solicit, divert or appropriate, any known customers or patrons of Amedica; or

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(iii) either individually or on behalf of or through any third party, directly or indirectly, solicit, entice or persuade or attempt to solicit, entice or persuade any other employees of or consultants to Amedica or any present or future parent, subsidiary or affiliate of Amedica to leave the services of Amedica or any such parent, subsidiary or affiliate for any reason.

c. Reasonableness of Restrictions. Wang further recognizes and acknowledges that: (i) the restrictions in this Section 8 are reasonable in relation to the skills which represent his principal salable asset both to Amedica and to any prospective employers, and (ii) the geographical scope of the provisions of this Section 7 is reasonable, legitimate and fair to Wang in light of Amedica's need to market its services and sell its products worldwide in order to have a sufficient customer base to make Amedica's business profitable and in light of the limited restrictions on the type of employment prohibited herein compared to the types of employment for which Wang is qualified to earn his livelihood.

d. Survival of Acknowledgments and Agreements. The acknowledgments and agreements set forth in this Section 8 shall survive the expiration or termination of this Agreement and the termination of Wang's employment, or consulting arrangements, with Amedica for any reason.

9. Ownership of Ideas, Copyrights and Patents.

a. Disclosure of Devices. Wang agrees that he will promptly disclose all Devices to Amedica and that he will not publish any Devices, or any information with regard thereto, without the prior written consent of Amedica.

b. Property of Amedica. Amedica shall have the sole and exclusive right, even as to Wang, to prepare, file, prosecute, obtain and maintain any and all patents and patent applications claiming any Devices. All Devices shall be the sole and exclusive property of Amedica and, subject to payment pursuant to the provisions of Section 3 hereof, Wang hereby assigns to Amedica all of his right, title and interest in and to all of the Devices. Wang further agrees to use his best efforts to ensure that no Devices will violate or infringe upon any right, patent, copyright, trademark or right of privacy, or constitute libel or slander against or violate any other rights of any person, firm or corporation.

c. Prior Rights. Wang has attached hereto as Schedule C (i) a list of all proprietary concepts and inventions in which he has any right, title, or interest as of the date of his execution of this Agreement (“Prior Rights”), and (ii) a list of all Prior Rights made, conceived, or developed, in whole or in part, by Wang prior to the date of his execution of this Agreement, and Wang represents that Schedule C is a complete and accurate list of all Prior rights.

d. Cooperation. Wang hereby agrees to willfully cooperate with Amedica, its attorneys and agents in the preparation and filing of all papers and other documents as may be required to perfect Amedica’s rights in and to any Devices, including, but not limited to, performing all acts deemed necessary or desirable by

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Amedica (both during the Term and for a period of [*****] after expiration of this Agreement) and joining in any proceeding to obtain letters patent, copyrights, trademarks or other legal rights of the United States of America and of any and all other countries to Devices; provided, that, Amedica will bear the expense of all such proceedings. Wang hereby agrees that any patent or other legal right covering any Device issued to Wang personally, shall be assigned by Wang to Amedica without charge by Wang, except as specifically provided under Section 3 hereof.

e. Works Made For Hire. Without limiting the foregoing, Wang further acknowledges that all original works of authorship made by such Wang, within the Field of Interest, whether alone or jointly with others in the performance of the Development Services and which are protectable by copyright are “works made for hire” within the meaning of the United States Copyright Act, 17 U.S.C. § 101, as amended, the copyright of which shall be owned solely, completely and exclusively by Amedica. If any Device is considered to be work not included in the categories of work covered by the United States Copyright Act, 17 U.S.C. § 101, as amended, such work shall be owned solely by, or hereby assigned or transferred completely and exclusively to, Amedica.

10. Representations and Warranties Regarding Prior Work and Legal Obligations.

a. Wang hereby represents and warrants that he has no commitments or obligations with any prior employer or any other person or entity that, would restrict his ability to perform the Development Services, or is inconsistent with this Agreement and Wang hereby agrees to indemnify and hold Amedica harmless against loss, damage, liability or expense arising from any claim based upon circumstances alleged to be inconsistent with such representation and warranty.

b. Wang represents that he has been advised by Amedica that at no time should he divulge to, or use for the benefit of, Amedica any trade secret or confidential or proprietary information of any previous employer. Wang acknowledges that he has not divulged or used any such information for the benefit of Amedica.

c. Wang represents that he has not and will not misappropriate any invention that he played any part in creating while working for any former employer.

d. Wang acknowledges that Amedica is basing important business decisions on these representations, and affirms that all of the statements included herein are true.

11. Equitable Remedies. Wang acknowledges that the breach of the provisions of Sections 7, 8, 9 and 10 above shall constitute irreparable damage to Amedica and, accordingly, Amedica may, in addition to all other available remedies under law and equity, obtain injunctive relief upon an alleged violation of such Sections pending resolution on the merits of any claims raised by Amedica hereunder.

12. Stock Option Arrangements. As further consideration hereunder, the parties agree in good faith to negotiate an agreement granting Wang certain rights to obtain options for the purchase of Amedica stock. The nature, amount and terms of such options shall be agreed upon by the parties in good-faith as soon as reasonably possible.

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13. Development Agreement Only. This Agreement constitutes a development agreement only. Nothing herein is intended, nor shall it be construed, to create any employer/ employee arrangement, partnership arrangement or other relationship between or among the parties except as expressly provided herein; and nothing herein is intended to grant to either party any right or interest in or to the assets, business or interests of the other party, nor the right to bind the other party except as expressly herein provided.

14. Compliance with Laws and Regulations. The parties, at all times, shall interpret and apply the provisions of this Agreement strictly in accordance with all applicable laws and regulations, including, but not limited to, the so-called Stark federal anti-referral law and all Medicare and Medicaid laws and regulations.

If any provision of this Agreement is found, by any applicable court or government agency, to be in conflict with any applicable law or regulation, the provisions of such law or regulation shall govern; and the interpretation and operation under this Agreement shall be modified accordingly.

15. Indemnification by Amedica.

a. Amedica will indemnify and hold Wang harmless from any and all claims, costs, judgments and expenses involving (i) any claim that any Device infringes or interferes with any patent or other proprietary claim of any third-party, and (ii) to the extent claimed or proven to be solely due to Device design or manufacturing defect (including reasonable attorneys' fees) of whatever sort based on claims of product design or manufacturing defects whether sounding in negligence, strict liability at law, contract or statutory violation, and (iii) any breach by Amedica of any provision of this Agreement.

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b. Any indemnification provided by Amedica hereunder shall not apply to any claim insofar as that claim (i) relates to a professional medical liability or malpractice claim brought against Wang for professional acts or omissions in connection with the medical care or treatment associated with a Device; (ii) arises from any breach by Wang of any provision of this Agreements; or (iii) arises from any knowing submission by Wang of false data to Amedica or from any other intentional wrongdoing by Wang.

c. Promptly upon Wang's receipt of information concerning the commencement of any third-party claim, demand, action, suit or proceeding (collectively, "Action") which is the subject of indemnification hereunder, Wang shall notify Amedica in writing of the commencement of the Action. Any failure to provide such prompt notice shall relieve Amedica of its indemnification obligations to the extent Amedica has been materially prejudiced by such failure. Amedica may select counsel at its own expense and control the defense of such indemnity claim; and Wang may participate jointly with Amedica in such defense, at Wang's expense, in which event the parties shall reasonably cooperate with each other subject, however, to Amedica's ultimate control of the defense. With respect to any Action relating solely to the payment of money damages, Amedica shall have the sole right to defend, settle, or otherwise dispose of such claim on such terms as Amedica, in its sole discretion, shall deem appropriate; provided, that Amedica shall provide reasonable evidence of its ability to pay any damages

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claimed. If the Action involves any claim in which Wang would become subject to injunctive relief or to other equitable relief, or Wang's business would be adversely affected in any manner, Amedica shall settle that claim only upon the written consent of Wang, which shall not be unreasonably withheld.

16. Indemnification by Wang Except to the extent that any such claims arise through the wrongful act or neglect of Amedica, Wang will indemnify and hold Amedica harmless from any and all claims, costs, judgments and expenses arising from any breach by Wang of any provision of this Agreement.

17. General.

a. Notices. All notices required or permitted to be given to a party hereunder shall be mailed by certified mail or registered mail, postage prepaid, to that party's address set forth on the signature page of this Agreement (or to such other address specified in writing).

b. Default. If either party defaults in any of the covenants or provisions herein, the defaulting party shall pay all costs and attorneys' fees incurred by the other party in enforcing its rights arising hereunder.

c. Governing Law and Venue. This Agreement shall be interpreted, performed and enforced according to the laws of Utah. Venue for any action hereof shall lie with the Third Judicial District Court of the State of Utah for the United States District Court for the District of Utah, Central Division.

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d. Unenforceable Provision. If any provision of this Agreement is deemed unenforceable by any court of competent jurisdiction, the remaining provisions shall nonetheless be enforceable according to their terms. Further, if any provision is held to be over broad as written, such provision shall be deemed amended to narrow its application to the extent necessary to make the provision enforceable according to applicable law and shall be enforced as amended.

e. Assignment. Amedica may assign its rights and obligations hereunder to any person or entity that succeeds to all or substantially all of Amedica's business or that aspect of Amedica's business in which Wang is principally involved. Wang's rights and obligations under this Agreement may not be assigned by that Wang without the prior written consent of Amedica.

f. Benefit. All statements, representations, warranties, covenants and agreements in this Agreement shall be binding on the parties hereto and shall inure to the benefit of the respective successors and permitted assigns of each party hereto. Nothing in this Agreement shall be construed to create any rights or obligations except between the parties hereto, and no person or entity shall be regarded as a third-party beneficiary of this Agreement, other than any future parent, subsidiary or affiliate of Amedica.

g. Entire Agreement. This Agreement embodies the entire agreement and understanding between and among the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement of any kind not expressly set forth in this Agreement shall affect, or be used to interpret, change or restrict, the express terms and provisions of this Agreement.

h. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended only by written agreement executed by the parties hereto.

i. Waivers and Consents. The terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

j. Construction. The parties have participated equally in the formation of this Agreement and the language of this Agreement will not be presumptively construed against either party.

k. Counterparts. This Agreement may be executed in one or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

1. Section Numbers and Headings. The Section and Subsection headings and numbers used herein are for purposes of convenience and shall not be considered in the interpretation of this Agreement.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

IN WITNESS WHEREOF this 8th day of May, 2004.

AMEDICA

ADDRESS:

AMEDICA CORP.
A Delaware Corporation

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

By: /s/ Ashok Khandkar
Its: President and CEO

WANG

ADDRESS:

Jeffrey C. Wang
[*****]
[*****]

/s/ Jeffrey C. Wang, M.D.
JEFFREY C. WANG, M.D.

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SCHEDULE A

Devices

The Devices consist of the following, [*****]:

1. [*****]
2. [*****]
3. [*****]
4. [*****]
5. [*****]
6. [*****]

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SCHEDULE B

List of Collaborators

[*****]

- [1] [*****]
- [2] [*****], and
- [3] [*****]

[*****]

- [1] [*****]
- [2] [*****]
- [3] [*****], and
- [4] [*****]

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

SCHEDULE C

Prior Rights

23

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AMENDMENTS TO DEVELOPMENT AGREEMENT

These Amendments to Development Agreement are made and entered into as of the 2nd day of June, 2006, by and between Amedica Corp., a Delaware Corporation (“Amedica”), and Jeffrey C. Wang, M.D. (“Wang”) of JCW Spine Research, Inc.

RECITALS:

A. By date of May 8, 2004, the parties entered into a Development Agreement (the “Agreement”) regarding the development of certain Devices.

B. The parties desire to amend the Agreement to define the specific Devices covered by the Agreement and to amend and clarify the amount of Wang’s compensation thereunder.

NOW, THEREFORE, in consideration of the foregoing and the mutual covenants and agreements hereinafter set forth, and other valuable consideration, the parties agree as follows:

1. All references to “Device(s)” throughout the Agreement refer to, and are limited to: (i) the [*****] made from [*****], and (ii) the [*****] made from [*****].

2. The first sentence in subparagraph 4(a) is amended and restated to read as follows:

*Wang shall, in the form of royalty or similar payments, receive [*****] of the Net After-Tax Profits.*

The remainder of subparagraph 4(a) shall continue as written.

3. Subparagraph 4(b) is eliminated in its entirety.

4. All references or implications, if any, in the Agreement to any required sharing by Wang of his royalties with any collaborator or other third party are terminated and eliminated from the Agreement.

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5. If any remaining provision of the Agreement, after giving effect to the Amendments provided above, conflicts with any of these Amendments, that conflicting provision shall be interpreted and applied consistent with these Amendments.

6. Except as otherwise specifically provided herein, all other provisions of the Agreement shall continue in full force and effect. Dated as of the day and year first above mentioned.

ADDRESS:

615 Arapeen Drive, Suite 302
Lake City, UT 84108

AMEDICA:

Amedica Corp. Salt
a Delaware Corporation

By /s/ Eugene B. Jones
Its Vice President - Finance and CFO

WANG:

/s/ Jeffrey C. Wang
Jeffrey C. Wang, M.D.
JCW Spine Research, Inc.

[*****]
[*****]

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

DEVELOPMENT AGREEMENT

This Development Agreement (this "Agreement") is made and entered into as of the 8th day of May, 2004 (the "Effective Date"), by and between AMEDICA CORP., a Delaware corporation ("Amedica"), and JIM A. YOUSSEF, M.D. ("Youssef").

RECITALS:

A. Amedica is in the business of designing, developing and selling various products and applications for medical and biomedical uses and from various materials, including the use of advanced ceramic materials.

B. Amedica desires to continue to encourage, through collaboration among two or more professionals ("Collaborators"), the conceiving, development, testing, marketing and dealing with novel devices for implant in or use with the spine in medical and surgical procedures ("Devices"), whether manufactured from ceramic materials or other materials.

C. Youssef is an orthopedic surgeon having knowledge and expertise relating to the spine.

D. The parties desire to enter into arrangements between the parties to assist in the future development, approval, trial and clinical use of Devices.

NOW, THEREFORE, for and in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree and represent as follows:

1. Definitions. For purposes of this Agreement, the following terms shall have the following definitions:

a. "Development Services" means the development and related services as requested by Amedica relating to the conceptualization, development, testing, approval and related matters involving the Devices more fully described in Section 2, below.

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b. "Devices" means all ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials, whether or not patentable, including all rights to obtain, perfect or enforce any proprietary interests therein, in the Field of Interest, which Youssef, whether alone or in concert with others, may conceive, reduce to practice or develop during the Term (or, if based on or related to any confidential or proprietary information of Amedica, within [*****] after the termination of this Agreement), alone or in conjunction with another, or others, whether during or out of regular business hours, and whether at the request or upon the suggestion of Amedica, or otherwise. These Devices include but are not limited to those items more fully identified on Schedule A -attached hereto.

c. "Field of Interest" means the development, testing and commercializing of biomedical or surgical devices, covered by current Amedica patent applications and further Amedica developments, and utilizing ceramic materials, intended for use in diagnosing, preventing or treating diseases or conditions affecting the spine or related structure or tissues or any applications thereof. Amedica may expand or otherwise change the definition of its Field of Interest at any time, as long as this expansion continues to be related to ceramic materials, which new definition will be binding upon Youssef ten (10) days after written notice to Youssef thereof.

d. "Collaborators" refer to the list of professionals more fully identified on Schedule B attached hereto.

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2. Cooperative Development Arrangements. The parties intend that Youssef, in collaboration and cooperation with the Collaborators shall diligently perform the Development Services and provide reasonable input and expertise from Youssef and each Collaborator hereunder. The Development Services shall include, without limitation, the following

a. Examining and reviewing the characteristics of the Devices and the nature of the materials with which the Devices are constructed.

b. Providing expertise in ideas and testing pertaining to the Devices, and coordination with other Amedica personnel and third parties related to such testing, as requested by Amedica.

c. Providing guidance and assistance in the clinical details of the Devices.

d. Using commercially reasonable efforts to generate interest in the Devices from companies who may seek to enter into a transaction with Amedica relating to the Devices.

e. Assisting in the filing of provisional patents and other patents pertaining to the Devices as determined by Amedica.

f. Assisting in applying for or otherwise seeking regulatory approval for the Devices or surgical processes for their implantation or other use.

3. Term and Termination.

a. The term (the "Term") of this Agreement shall commence as of the Effective Date and shall continue until the later of: (i) ten (10) years from the date hereof; or (ii) the expiration of patent rights on the Devices, unless earlier terminated as provided hereunder.

b. Either party has the right to terminate this Agreement at any time upon thirty (30) days' prior written notice to the other. In such event, Amedica shall be obligated to continue to pay royalty payments earned for Devices resulting from Youssef's Development Services up to the date of termination.

c. Upon the death or termination of another Collaborator, not resulting in the termination of the Agreement by Youssef and any other Collaborator, this Agreement shall continue (subject to Subsection 3(b) above) as to Youssef and remaining Collaborator(s); provided, that the remaining parties to this Agreement shall, as soon as reasonably possible, negotiate in good faith any modifications to Youssef's duties and compensation as may be appropriate under the circumstances.

4. Compensation for Assignment and Sale Proprietary Rights. As full consideration for the Development Services and any assignment of right in Devices to Amedica pursuant to Section 9 hereof, Amedica shall pay Youssef the total of the following:

a. Youssef shall, in the form of royalty or similar payments, receive an equal share of the total of up to [*****] of the Net After-Tax Profits as separately agreed among Youssef, Amedica and the other Collaborators; provided, that this is subject to the provisions of Subsections 4(c) and 4(d) below. "Net After-Tax Profits" is defined as that portion of profits received by Amedica attributable to sale of Devices, after deducting from all gross proceeds from such sales the costs and expenses attributable to the development, testing, marketing and sale of the Devices (but not including any Amedica overhead or expenses unrelated to the Devices), and less all sales, use, occupation or excise taxes and all income taxes applicable to income generated from the Devices.

b. Youssef's respective share of the Net After-Tax Profits shall be determined by Youssef and Amedica, in good faith, based upon Youssef's contribution to the final form of the Devices, relative to the contributions of Amedica, other Collaborators and any third parties. Such share shall be calculated on a monthly basis, with payment to Youssef of each monthly amount no later than the last day of the following month.

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c. Upon Youssef's death, or upon letters from two independent physicians that Youssef is disabled and unable to perform the nature of the Development Services hereunder, this Agreement shall terminate as to Youssef; provided, that Youssef (or Youssef's surviving spouse or estate) shall continue to be entitled to receive the royalties as provided herein, applicable to all Devices completed for marketing prior to the date of death or disability.

d. Notwithstanding any provision herein to the contrary, income used for calculating royalties payable to Youssef hereunder shall not include any sales attributable to the use of any Devices by any hospital or surgical center where Youssef (or a partner, shareholder, employed or contracting physician) currently practices medicine.

No provision under this Agreement, either overtly or covertly, directly or indirectly, requires or contemplates that Youssef make any recommendations to Youssef's patients or health care facilities with respect to Amedica's Devices or other products. There shall be no adjustment to the percentage of royalties, or the rate of any other compensation, if any, resulting from the presence of or absence of, any recommendations of Amedica's Devices or other products to Youssef's patients or health care facilities by Youssef.

e. Amedica shall maintain separate accountings relating to the Devices. Youssef shall, at all times, have reasonable access to examine Amedica's books and records relating to the Devices.

f. Youssef acknowledges that the payment provisions of this Section 4 represent the sole agreement between the parties with regard to Youssef's compensation for all Development Services and any assignment of rights to the Devices; and Amedica shall not be

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obligated to make, or otherwise be liable for, any additional payment of compensation or reimbursement of expenses with regard to Development Services or the Devices or other similar type payment. It is the parties' intent that this Agreement provide for the "sale or exchange of a capital asset" by Youssef to Amedica under Internal Revenue Code Section 1235 entitled "Sale or Exchange of Patents," and that all payments made to Youssef hereunder shall be taxed as long-term capital gains. Nothing in this Agreement to the contrary shall imply that the parties intend that the payments to Youssef hereunder shall be for anything other than the transfer of all proprietary rights that Youssef may have in the Devices. Amedica is making no warranties or representations, however, as to ultimate taxability of the payments to Youssef hereunder.

5. Facilities. To the extent necessary, Amedica shall provide Youssef office space, equipment, telephone, secretarial help and all other equipment and related services necessary for the performance of the Development Services hereunder.

6. Exclusivity. Amedica acknowledges that Youssef has other professional business and investment dealings in addition to his responsibilities under this Agreement and that Youssef will not be required to devote his time exclusively to his responsibilities hereunder. Notwithstanding any provision herein to the contrary, Youssef agrees that during the Term, Amedica shall have the exclusive right to the Devices.

7. Confidentiality.

a. Both during the Term and following termination of this Agreement for any reason, except as necessary for the performance of the Development Services hereunder, Youssef shall not, at any time or in any manner, directly or indirectly, use, divulge, disclose or communicate to any third-person or entity any information that was disclosed to or developed by Youssef during the course of performing the Development Services and which is not generally

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available to the public, including, without limiting the generality of the foregoing: information regarding matters affecting or relating to Amedica's business or its Devices; the nature of Amedica's properties or products, whether developed or under development; the identity of Amedica's customers; prices which Amedica obtains or has obtained with respect to its products or services; information as to Amedica's discussions, negotiations and/or dealings with actual or potential third-party buyers, investors, licensees or co-venturers; Amedica's costs, overhead or profit margin; or Amedica's operational methods or its business plans and processes. All material as such will be labeled "confidential".

b. Records. Promptly following termination of this Agreement, Youssef shall deliver to Amedica any and all property of Amedica which may be in his possession including products, materials, memoranda, notes, records, reports, writings, drawings, diskettes, models and other materials or other documents or photocopies of the same in any tangible form whatsoever constituting confidential or proprietary information of Amedica, and any of the foregoing in intangible form.

8. Covenant Not to Compete.

a. Certain Acknowledgments and Agreements. Youssef recognizes and acknowledges the competitive and proprietary nature of Amedica's business operations. Youssef acknowledges and agrees that a business will be deemed competitive with Amedica if it engages in a line of business in which it develops, manufactures or sells any products provided or offered by Amedica or any similar products, or products fulfilling the same function, in the Field of Interest (such business to be referred to as a "Competitive Business").

b. Youssef agrees that during the Term and for an additional [*****] after termination of this Agreement (which period shall be tolled during the period of any violation or breach of any of the provisions hereof and for a period of [*****] thereafter), whether such termination is voluntary or involuntary, Youssef shall not:

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(i) for his benefit, or on behalf of any other person or entity, directly or indirectly, as principal, agent, stockholder, employee, consultant, representative or in any other capacity, own, manage, operate or control, or be concerned, connected or employed by, or otherwise associate in any manner with, engage in or have a financial interest in any Competitive Business anywhere in the continental United States of America (the "Restricted Territory"), except that nothing contained herein shall preclude Youssef from purchasing or owning securities of any such business if such securities are publicly traded, and provided that his holdings do not exceed one percent (1%) of the issued and outstanding securities of any class of securities of such business; or

(ii) either individually or on behalf of or through any third party, solicit, divert or appropriate or attempt to solicit, divert or appropriate, any known customers or patrons of Amedica; or

(iii) either individually or on behalf of or through any third party, directly or indirectly, solicit, entice or persuade or attempt to solicit, entice or persuade any other employees of or consultants to Amedica or any present or future parent, subsidiary or affiliate of Amedica to leave the services of Amedica or any such parent, subsidiary or affiliate for any reason.

c. Reasonableness of Restrictions. Youssef further recognizes and acknowledges that: (i) the restrictions in this Section 8 are reasonable in relation to the skills which represent his principal salable asset both to Amedica and to any prospective employers, and (ii) the geographical scope of the provisions of this Section 7 is reasonable, legitimate and

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fair to Youssef in light of Amedica's need to market its services and sell its products worldwide in order to have a sufficient customer base to make Amedica's business profitable and in light of the limited restrictions on the type of employment prohibited herein compared to the types of employment for which Youssef is qualified to earn his livelihood.

d. Survival of Acknowledgments and Agreements. The acknowledgments and agreements set forth in this Section 8 shall survive the expiration or termination of this Agreement and the termination of Youssef's employment, or consulting arrangements, with Amedica for any reason.

9. Ownership of Ideas, Copyrights and Patents.

a. Disclosure of Devices. Youssef agrees that he will promptly disclose all Devices to Amedica and that he will not publish any Devices, or any information with regard thereto, without the prior written consent of Amedica.

b. Property of Amedica. Amedica shall have the sole and exclusive right, even as to Youssef, to prepare, file, prosecute, obtain and maintain any and all patents and patent applications claiming any Devices. All Devices shall be the sole and exclusive property of Amedica and, subject to payment pursuant to the provisions of Section 3 hereof, Youssef hereby assigns to Amedica all of his right, title and interest in and to all of the Devices. Youssef further agrees to use his best efforts to ensure that no Devices will violate or infringe upon any right, patent, copyright, trademark or right of privacy, or constitute libel or slander against or violate any other rights of any person, firm or corporation.

c. Prior Rights. Youssef has attached hereto as Schedule C (i) a list of all proprietary concepts and inventions in which he has any right, title, or interest as of the date of his execution of this Agreement ("Prior Rights"), and (ii) a list of all Prior Rights made,

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conceived, or developed, in whole or in part, by Youssef prior to the date of his execution of this Agreement, and Youssef represents that Schedule C is a complete and accurate list of all Prior rights.

d. Cooperation. Youssef hereby agrees to willfully cooperate with Amedica, its attorneys and agents in the preparation and filing of all papers and other documents as may be required to perfect Amedica's rights in and to any Devices, including, but not limited to, performing all acts deemed necessary or desirable by Amedica (both during the Term and for a period of [*****] after expiration of this Agreement) and joining in any proceeding to obtain letters patent, copyrights, trademarks or other legal rights of the United States of America and of any and all other countries to Devices; provided, that, Amedica will bear the expense of all such proceedings. Youssef hereby agrees that any patent or other legal right covering any Device issued to Youssef personally, shall be assigned by Youssef to Amedica without charge by Youssef, except as specifically provided under Section 3 hereof.

e. Works Made For Hire. Without limiting the foregoing, Youssef further acknowledges that all original works of authorship made by such Youssef, within the Field of Interest, whether alone or jointly with others in the performance of the Development Services and which are protectable by copyright are "works made for hire" within the meaning of the United States Copyright Act, 17 U.S.C. § 101, as amended, the copyright of which shall be owned solely, completely and exclusively by Amedica. If any Device is considered to be work not included in the categories of work covered by the United States Copyright Act, 17 U.S.C. § 101, as amended, such work shall be owned solely by, or hereby assigned or transferred completely and exclusively to, Amedica.

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10. Representations and Warranties Regarding Prior Work and Legal Obligations.

a. Youssef hereby represents and warrants that he has no commitments or obligations with any prior employer or any other person or entity that, would restrict his ability to perform the Development Services, or is inconsistent with this Agreement and Youssef hereby agrees to indemnify and hold Amedica harmless against loss, damage, liability or expense arising from any claim based upon circumstances alleged to be inconsistent with such representation and warranty.

b. Youssef represents that he has been advised by Amedica that at no time should he divulge to, or use for the benefit of, Amedica any trade secret or confidential or proprietary information of any previous employer. Youssef acknowledges that he has not divulged or used any such information for the benefit of Amedica.

c. Youssef represents that he has not and will not misappropriate any invention that he played any part in creating while working for any former employer.

d. Youssef acknowledges that Amedica is basing important business decisions on these representations, and affirms that all of the statements included herein are true.

11. Equitable Remedies. Youssef acknowledges that the breach of the provisions of Sections 7, 8, 9 and 10 above shall constitute irreparable damage to Amedica and, accordingly, Amedica may, in addition to all other available remedies under law and equity, obtain injunctive relief upon an alleged violation of such Sections pending resolution on the merits of any claims raised by Amedica hereunder.

12. Stock Option Arrangements. As further consideration hereunder, the parties agree in good faith to negotiate an agreement granting Youssef certain rights to obtain options for the purchase of Amedica stock. The nature, amount and terms of such options shall be agreed upon by the parties in good-faith as soon as reasonably possible.

13. Development Agreement Only. This Agreement constitutes a development agreement only. Nothing herein is intended, nor shall it be construed, to create any employer/ employee arrangement, partnership arrangement or other relationship between or among the parties except as expressly provided herein; and nothing herein is intended to grant to either party any right or interest in or to the assets, business or interests of the other party, nor the right to bind the other party except as expressly herein provided.

14. Compliance with Laws and Regulations. The parties, at all times, shall interpret and apply the provisions of this Agreement strictly in accordance with all applicable laws and regulations, including, but not limited to, the so-called Stark federal anti-referral law and all Medicare and Medicaid laws and regulations.

If any provision of this Agreement is found, by any applicable court or government agency, to be in conflict with any applicable law or regulation, the provisions of such law or regulation shall govern; and the interpretation and operation under this Agreement shall be modified accordingly.

15. Indemnification by Amedica.

a. Amedica will indemnify and hold Youssef harmless from any and all claims, costs, judgments and expenses involving (i) any claim that any Device infringes or interferes with any patent or other proprietary claim of any third-party, and (ii) to the extent claimed or proven to be solely due to Device design or manufacturing defect (including reasonable attorneys' fees) of whatever sort based on claims of product design or manufacturing defects whether sounding in negligence, strict liability at law, contract or statutory violation, and (iii) any, breach by Amedica of any provision of this Agreement.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

b. Any indemnification provided by Amedica hereunder shall not apply to any claim insofar as that claim (i) relates to a professional medical liability or malpractice claim brought against Youssef for professional acts or omissions in connection with the medical care or treatment associated with a Device; (ii) arises from any breach by Youssef of any provision of this Agreements; or (iii) arises from any knowing submission by Youssef of false data to Amedica or from any other intentional wrongdoing by Youssef.

c. Promptly upon Youssef's receipt of information concerning the commencement of any third-party claim, demand, action, suit or proceeding (collectively, "Action") which is the subject of indemnification hereunder, Youssef shall notify Amedica in writing of the commencement of the Action. Any failure to provide such prompt notice shall relieve Amedica of its indemnification obligations to the extent Amedica has been materially prejudiced by such failure. Amedica may select counsel at its own expense and control the defense of such indemnity claim; and Youssef may participate jointly with Amedica in such defense, at Youssef's expense, in which event the parties shall reasonably cooperate with each other subject, however, to Amedica's ultimate control of the defense. With respect to any Action relating solely to the payment of money damages, Amedica shall have the sole right to defend, settle, or otherwise dispose of such claim on such terms as Amedica, in its sole discretion, shall deem appropriate; provided, that Amedica shall provide reasonable evidence of its ability to pay any damages claimed. If the Action involves any claim in which Youssef would become subject to injunctive relief or to other equitable relief, or Youssef's business would be adversely affected in any manner, Amedica shall settle that claim only upon the written consent of Youssef, which shall not be unreasonably withheld.

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16. Indemnification by Youssef. Except to the extent that any such claims arise through the wrongful act or neglect of Amedica, Youssef will indemnify and hold Amedica harmless from any and all claims, costs, judgments and expenses arising from any breach by Youssef of any provision of this Agreement.

17. General.

a. Notices. All notices required or permitted to be given to a party hereunder shall be mailed by certified mail or registered mail, postage prepaid, to that party's address set forth on the signature page of this Agreement (or to such other address specified in writing).

b. Default. If either party defaults in any of the covenants or provisions herein, the defaulting party shall pay all costs and attorneys' fees incurred by the other party in enforcing its rights arising hereunder.

c. Governing Law and Venue. This Agreement shall be interpreted, performed and enforced according to the laws of Utah. Venue for any action hereof shall lie with the Third Judicial District Court of the State of Utah for the United States District Court for the District of Utah, Central Division.

d. Unenforceable Provision. If any provision of this Agreement is deemed unenforceable by any court of competent jurisdiction, the remaining provisions shall nonetheless be enforceable according to their terms. Further, if any provision is held to be over broad as written, such provision shall be deemed amended to narrow its application to the extent necessary to make the provision enforceable according to applicable law and shall be enforced as amended.

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e. Assignment. Amedica may assign its rights and obligations hereunder to any person or entity that succeeds to all or substantially all of Amedica's business or that aspect of Amedica's business in which Youssef is principally involved. Youssef's rights and obligations under this Agreement may not be assigned by that Youssef without the prior written consent of Amedica.

f. Benefit. All statements, representations, warranties, covenants and agreements in this Agreement shall be binding on the parties hereto and shall inure to the benefit of the respective successors and permitted assigns of each party hereto. Nothing in this Agreement shall be construed to create any rights or obligations except between the parties hereto, and no person or entity shall be regarded as a third-party beneficiary of this Agreement, other than any future parent, subsidiary or affiliate of Amedica.

g. Entire Agreement. This Agreement embodies the entire agreement and understanding between and among the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement of any kind not expressly set forth in this Agreement shall affect, or be used to interpret, change or restrict, the express terms and provisions of this Agreement.

h. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended only by written agreement executed by the parties hereto.

i. Waivers and Consents. The terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be

deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

j. Construction. The parties have participated equally in the formation of this Agreement and the language of this Agreement will not be presumptively construed against either party.

k. Counterparts. This Agreement may be executed in one or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

l. Section Numbers and Headings. The Section and Subsection headings and numbers used herein are for purposes of convenience and shall not be considered in the interpretation of this Agreement.

IN WITNESS WHEREOF this 8th day of May, 2004.

AMEDICA

Address:

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

Amedica Corp.
A Delaware Corporation

By: /s/ Ashok Khandkar
Its: President and CEO

YOUSSEF

Address:

Jim Youssef
[*****]
[*****]

/s/ Jim Youssef, M.D.
Jim Youssef, M.D.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

SCHEDULE A

Devices

The Devices consist of the following, [*****]:

1. [*****]
2. [*****]
3. [*****]
4. [*****]
5. [*****]
6. [*****]

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SCHEDULE B

List of Collaborators

[*****]

- [1] [*****]
- [2] [*****], and
- [3] [*****]

[*****]

- [1] [*****]
- [2] [*****]
- [3] [*****], and
- [4] [*****]

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

SCHEDULE C

Prior Rights

19

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AMENDMENT TO DEVELOPMENT AGREEMENT

This Amendment to Development Agreement is made and entered into as of the 24th day of May, 2006, by and between Amedica Corp., a Delaware Corporation (“Amedica”), and Jim A. Youssef, M.D. (“Youssef”).

RECITALS

A. By date of May 8, 2004, the parties entered into a Development Agreement (the “Agreement”) regarding a development of devices.

B. The parties desire to amend the Agreement to define the specific devices covered by the Agreement and to amend and clarify the amount of Youssef’s compensation thereunder.

NOW, THEREFORE, in consideration of the foregoing and the mutual covenants and agreements hereinafter set forth, and other valuable consideration, the parties agree as follows:

1. All references to “Device(s)” through the Agreement refer to, and are limited to: (i) the [*****] made from [*****], and (ii) the [*****] made of [*****].

2. The first sentence in paragraph 4(a) is amended and restated as follows:

*Youssef shall, in the form of royalty or similar payments, receive [*****] of the net after-tax profit.*

The remainder of subparagraph 4(a) shall continue in full force and effect.

3. Paragraph 4(b) is eliminated and superceded.

4. All references or implications, if any, in the Agreement to any required sharing by Youssef of royalties with any collaborators or other third parties are terminated and eliminated from the Agreement.

5. If any remaining provision of the Agreement, after giving effect to the Amendments provided above, conflicts with any of these Amendments, that conflicting provision shall be interpreted and applied consistent with these Amendments.

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6. Except as otherwise specifically provided herein all other provisions of the Agreement shall continue in full force and effect.

Dated as of the day and year first above mentioned.

ADDRESS:

615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

AMEDICA:

Amedica Corp.
a Delaware Corporation

By /s/ Eugene B. Jones

Its Vice President - Finance and CFO

YOUSSEF:

/s/ Jim A. Youssef

Jim A. Youssef, M.D.

[*****]
[*****]

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

DEVELOPMENT AGREEMENT

This Development Agreement (this "Agreement") is made and entered into as of the 16th day of February 2005 (the "Effective Date"), by and between AMEDICA CORP., a Delaware corporation ("Amedica"), and Jean-Jacques Abitbol, M.D. ("Abitbol").

RECITALS:

A. Amedica is in the business of designing, developing and selling various products and applications for medical and biomedical uses and from various materials, including the use of advanced ceramic materials.

B. Amedica desires to continue to encourage, through collaboration among two or more professionals ("Collaborators"), the conceiving, development, testing, marketing and dealing with novel devices for implant in or use with hip and knee reconstructive medical and surgical procedures ("Devices"), whether manufactured from ceramic materials or other materials.

C. Abitbol is an orthopedic surgeon having knowledge and expertise relating to the spine.

D. The parties desire to enter into arrangements between the parties to assist in the future development, approval, trial and clinical use of Devices.

NOW, THEREFORE, for and in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree and represent as follows:

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1. **Definitions.** For purposes of this Agreement, the following terms shall have the following definitions:

a. "Development Services" means the development and related services as requested by Amedica relating to the conceptualization, development, testing, approval and related matters involving the Devices more fully described in Section 2, below.

b. "Devices" means all ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials, whether or not patentable, including all rights to obtain, perfect or enforce any proprietary interests therein, in the Field of Interest, which Abitbol, whether alone or in concert with others, may conceive, reduce to practice or develop during the Term (or, if based on or related to any confidential or proprietary information of Amedica, within [*****] after the termination of this Agreement), alone or in conjunction with another, or others, whether during or out of regular business hours, and whether at the request or upon the suggestion of Amedica, or otherwise. These Devices include but are not limited to those items more fully identified on Schedule A attached hereto.

c. "Field of Interest" means the development, testing and commercializing of biomedical or surgical devices, covered by current Amedica patent applications and further Amedica developments, and utilizing ceramic materials, intended for use in diagnosing, preventing or treating diseases or conditions affecting the hip or knee or related structure or tissues or any applications thereof. Amedica may expand or otherwise change the definition of its Field of Interest at any time, as long as this expansion continues to be related to ceramic materials, which new definition will be binding upon Abitbol ten (10) days after written notice to Abitbol thereof.

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d. "Collaborators" refer to the list of professionals more fully identified on Schedule B attached hereto.

2. **Cooperative Development Arrangements.** The parties intend that Abitbol, in collaboration and cooperation with the Collaborators shall diligently perform the Development Services and provide reasonable input and expertise from Abitbol and each Collaborator hereunder. The Development Services shall include, without limitation, the following

- a. Examining and reviewing the characteristics of the Devices and the nature of the materials with which the Devices are constructed.
- b. Providing expertise in ideas and testing pertaining to the Devices, and coordination with other Amedica personnel and third parties related to such testing, as requested by Amedica.
- c. Providing guidance and assistance in the clinical details of the Devices.
- d. Using commercially reasonable efforts to generate interest in the Devices from companies who may seek to enter into a transaction with Amedica relating to the Devices.
- e. Assisting in the filing of provisional patents and other patents pertaining to the Devices as determined by Amedica.
- f. Assisting in applying for or otherwise seeking regulatory approval for the Devices or surgical processes for their implantation or other use.

3. **Term and Termination.**

a. The term (the "Term") of this Agreement shall commence as of the Effective Date and shall continue until the later of: (i) ten (10) years from the date hereof; or (ii) the expiration of patent rights on the Devices, unless earlier terminated as provided hereunder.

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b. Either party has the right to terminate this Agreement at any time upon thirty (30) days' prior written notice to the other.

c. Upon the death or termination of another Collaborator, not resulting in the termination of the Agreement by Abitbol and any other Collaborator, this Agreement shall continue (subject to Subsection 3(b) above) as to Abitbol and remaining Collaborator(s); provided, that the remaining parties to this Agreement shall, as soon as reasonably possible, negotiate in good faith any modifications to Abitbol's duties as may be appropriate under the circumstances.

4. **Facilities.** To the extent necessary, Amedica shall provide Abitbol office space, equipment, telephone, secretarial help and all other equipment and related services necessary for the performance of the Development Services hereunder.

5. **Exclusivity.** Amedica acknowledges that Abitbol has other professional business and investment dealings in addition to his responsibilities under this Agreement and that Abitbol will not be required to devote his time exclusively to his responsibilities hereunder. Notwithstanding any provision herein to the contrary, Abitbol agrees that during the Term, Amedica shall have the exclusive right to the Devices.

6. **Confidentiality.**

a. Both during the Term and following termination of this Agreement for any reason, except as necessary for the performance of the Development Services hereunder, Abitbol shall not, at any time or in any manner, directly or indirectly, use, divulge, disclose or communicate to any third-person or entity any information that was disclosed to or developed by Abitbol during the course of performing the Development Services and which is not generally available to the public, including, without limiting the generality of the foregoing: information

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regarding matters affecting or relating to Amedica's business or its Devices; the nature of Amedica's properties or products, whether developed or under development; the identity of Amedica's customers; prices which Amedica obtains or has obtained with respect to its products or services; information as to Amedica's discussions, negotiations and/or dealings with actual or potential third-party buyers, investors, licensees or co-venturers; Amedica's costs, overhead or profit margin; or Amedica's operational methods or its business plans and processes. All material as such will be labeled "confidential".

b. Records. Promptly following termination of this Agreement, Abitbol shall deliver to Amedica any and all property of Amedica which may be in his possession including products, materials, memoranda, notes, records, reports, writings, drawings, diskettes, models and other materials or other documents or photocopies of the same in any tangible form whatsoever constituting confidential or proprietary information of Amedica, and any of the foregoing in intangible form.

7. Covenant Not to Compete.

a. Certain Acknowledgments and Agreements. Abitbol recognizes and acknowledges the competitive and proprietary nature of Amedica's business operations. Abitbol acknowledges and agrees that a business will be deemed competitive with Amedica if it engages in a line of business in which it develops, manufactures or sells any products provided or offered by Amedica or any similar products, or products fulfilling the same function, in the Field of Interest (such business to be referred to as a "Competitive Business").

b. Abitbol agrees that during the Term and for an additional [*****] after termination of this Agreement (which period shall be tolled during the period of any violation or breach of any of the provisions hereof and for a period of [*****] thereafter), whether such termination is voluntary or involuntary, Abitbol shall not:

(i) for his benefit, or on behalf of any other person or entity, directly or indirectly, as principal, agent, stockholder, employee, consultant, representative or in any other capacity, own, manage, operate or control, or be concerned, connected or employed by, or otherwise associate in any manner with, engage in or have a financial interest in any Competitive Business anywhere in the continental United States of America (the "Restricted Territory"), except that nothing contained herein shall preclude Abitbol from purchasing or owning securities of any such business if such securities are publicly traded, and provided that his holdings do not exceed one percent (1%) of the issued and outstanding securities of any class of securities of such business; or

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(ii) either individually or on behalf of or through any third party, solicit, divert or appropriate or attempt to solicit, divert or appropriate, any known customers or patrons of Amedica; or

(iii) either individually or on behalf of or through any third party, directly or indirectly, solicit, entice or persuade or attempt to solicit, entice or persuade any other employees of or consultants to Amedica or any present or future parent, subsidiary or affiliate of Amedica to leave the services of Amedica or any such parent, subsidiary or affiliate for any reason.

c. Reasonableness of Restrictions. Abitbol further recognizes and acknowledges that: (i) the restrictions in this Section 7 are reasonable in relation to the skills which represent his principal salable asset both to Amedica and to any prospective employers, and (ii) the geographical scope of the provisions of this Section 7 is reasonable, legitimate and

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fair to Abitbol in light of Amedica's need to market its services and sell its products worldwide in order to have a sufficient customer base to make Amedica's business profitable and in light of the limited restrictions on the type of employment prohibited herein compared to the types of employment for which Abitbol is qualified to earn his livelihood.

d. Survival of Acknowledgments and Agreements. The acknowledgments this agreements set forth in this Section 7 shall survive the expiration or termination of this Agreement and the termination of Abitbol's employment, or consulting arrangements, with Amedica for any reason.

8. Ownership of Ideas, Copyrights and Patents.

a. Disclosure of Devices. Abitbol agrees that he will promptly disclose all Devices to Amedica and that he will not publish any Devices, or any information with regard thereto, without the prior written consent of Amedica.

b. Property of Amedica. Amedica shall have the sole and exclusive right, even as to Abitbol, to prepare, file, prosecute, obtain and maintain any and all patents and patent applications claiming any Devices. All Devices shall be the sole and exclusive property of Amedica and, subject to payment pursuant to the provisions of Section 3 hereof, Abitbol hereby assigns to Amedica all of his right, title and interest in and to all of the Devices. Abitbol further agrees to use his best efforts to ensure that no Devices will violate or infringe upon any right, patent, copyright, trademark or right of privacy, or constitute libel or slander against or violate any other rights of any person, firm or corporation.

c. Prior Rights. Abitbol has attached hereto as Schedule C (i) a list of all proprietary concepts and inventions in which he has any right, title, or interest as of the date of his execution of this Agreement ("Prior Rights"), and (ii) a list of all Prior Rights made,

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conceived, or developed, in whole or in part, by Abitbol prior to the date of his execution of this Agreement, and Abitbol represents that Schedule C is a complete and accurate list of all Prior rights.

d. Cooperation. Abitbol hereby agrees to willfully cooperate with Amedica, its attorneys and agents in the preparation and filing of all papers and other documents as may be required to perfect Amedica's rights in and to any Devices, including, but not limited to, performing all acts deemed necessary or desirable by Amedica (both during the Term and for a period of [*****] after expiration of this Agreement) and joining in any proceeding to obtain letters patent, copyrights, trademarks or other legal rights of the United States of America and of any and all other countries to Devices; provided, that, Amedica will bear the expense of all such proceedings. Abitbol hereby agrees that any patent or other legal right covering any Device issued to Abitbol personally, shall be assigned by Abitbol to Amedica without charge by Abitbol, except as specifically provided under Section 3 hereof.

e. Works Made For Hire. Without limiting the foregoing, Abitbol further acknowledges that all original works of authorship made by such Abitbol, within the Field of Interest, whether alone or jointly with others in the performance of the Development Services and which are protectable by copyright are "works made for hire" within the meaning of the United States Copyright Act, 17 U.S.C. § 101, as amended, the copyright of which shall be owned solely, completely and exclusively by Amedica. If any Device is considered to be work not included in the categories of work covered by the United States Copyright Act, 17 U.S.C. § 101, as amended, such work shall be owned solely by, or hereby assigned or transferred completely and exclusively to, Amedica.

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9. Representations and Warranties Regarding Prior Work and Legal Obligations.

a. Abitbol hereby represents and warrants that he has no commitments or obligations with any prior employer or any other person or entity that, would restrict his ability to perform the Development Services, or is inconsistent with this Agreement and Abitbol hereby agrees to indemnify and hold Amedica harmless against loss, damage, liability or expense arising from any claim based upon circumstances alleged to be inconsistent with such representation and warranty.

b. Abitbol represents that he has been advised by Amedica that at no time should he divulge to, or use for the benefit of, Amedica any trade secret or confidential or proprietary information of any previous employer. Abitbol acknowledges that he has not divulged or used any such information for the benefit of Amedica.

c. Abitbol represents that he has not and will not misappropriate any invention that he played any part in creating while working for any former employer.

d. Abitbol acknowledges that Amedica is basing important business decisions on these representations, and affirms that all of the statements included herein are true.

10. **Equitable Remedies.** Abitbol acknowledges that the breach of the provisions of Sections 6, 7, 8 and 9 above shall constitute irreparable damage to Amedica and, accordingly, Amedica may, in addition to all other available remedies under law and equity, obtain injunctive relief upon an alleged violation of such Sections pending resolution on the merits of any claims raised by Amedica hereunder.

11. **Stock Option Arrangements.** As further consideration hereunder, the parties agree in good faith to negotiate an agreement granting Abitbol certain rights to obtain options for the purchase of Amedica stock. The nature, amount and terms of such options shall be agreed upon by the parties in good-faith as soon as reasonably possible.

12. **Development Agreement Only.** This Agreement constitutes a development agreement only. Nothing herein is intended, nor shall it be construed, to create any employer/ employee arrangement, partnership arrangement or other relationship between or among the parties except as expressly provided herein; and nothing herein is intended to grant to either party any right or interest in or to the assets, business or interests of the other party, nor the right to bind the other party except as expressly herein provided.

13. **Compliance with Laws and Regulations.** The parties, at all times, shall interpret and apply the provisions of this Agreement strictly in accordance with all applicable laws and regulations, including, but not limited to, the so-called Stark federal anti-referral law and all Medicare and Medicaid laws and regulations.

If any provision of this Agreement is found, by any applicable court or government agency, to be in conflict with any applicable law or regulation, the provisions of such law or regulation shall govern; and the interpretation and operation under this Agreement shall be modified accordingly.

14. **Indemnification by Amedica.**

a. Amedica will indemnify and hold Abitbol harmless from any and all claims, costs, judgments and expenses involving (i) any claim that any Device infringes or interferes with any patent or other proprietary claim of any third-party, and (ii) to the extent claimed or proven to be solely due to Device design or manufacturing defect (including reasonable attorneys' fees) of whatever sort based on claims of product design or manufacturing defects whether sounding in negligence, strict liability at law, contract or statutory violation, and (iii) any breach by Amedica of any provision of this Agreement.

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b. Any indemnification provided by Amedica hereunder shall not apply to any claim insofar as that claim (i) relates to a professional medical liability or malpractice claim brought against Abitbol for professional acts or omissions in connection with the medical care or treatment associated with a Device; (ii) arises from any breach by Abitbol of any provision of this Agreements; or (iii) arises from any knowing submission by Abitbol of false data to Amedica or from any other intentional wrongdoing by Abitbol.

c. Promptly upon Abitbol's receipt of information concerning the commencement of any third-party claim, demand, action, suit or proceeding (collectively, "Action") which is the subject of indemnification hereunder, Abitbol shall notify Amedica in writing of the commencement of the Action. Any failure to provide such prompt notice shall relieve Amedica of its indemnification obligations to the extent Amedica has been materially prejudiced by such failure. Amedica may select counsel at its own expense and control the defense of such indemnity claim; and Abitbol may participate jointly with Amedica in such defense, at Abitbol's expense, in which event the parties shall reasonably cooperate with each other subject, however, to Amedica's ultimate control of the defense. With respect to any Action relating solely to the payment of money damages, Amedica shall have the sole right to defend, settle, or otherwise dispose of such claim on such terms as Amedica, in its sole discretion, shall deem appropriate; provided, that Amedica shall provide reasonable evidence of its ability to pay any damages claimed. If the Action involves any claim in which Abitbol would become subject to injunctive relief or to other equitable relief, or Abitbol's business would be adversely affected in any manner, Amedica shall settle that claim only upon the written consent of Abitbol, which shall not be unreasonably withheld.

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15. **Indemnification by Abitbol.** Except to the extent that any such claims arise through the wrongful act or neglect of Amedica, Abitbol will indemnify and hold Amedica harmless from any and all claims, costs, judgments and expenses arising from any breach by Abitbol of any provision of this Agreement.

16. **General.**

a. **Notices.** All notices required or permitted to be given to a party hereunder shall be mailed by certified mail or registered mail, postage prepaid, to that party's address set forth on the signature page of this Agreement (or to such other address specified in writing).

b. **Default.** If either party defaults in any of the covenants or provisions herein, the defaulting party shall pay all costs and attorneys' fees incurred by the other party in enforcing its rights arising hereunder.

c. **Governing Law and Venue.** This Agreement shall be interpreted, performed and enforced according to the laws of Utah. Venue for any action hereof shall lie with the Third Judicial District Court of the State of Utah for the United States District Court for the District of Utah, Central Division.

d. **Unenforceable Provision.** If any provision of this Agreement is deemed unenforceable by any court of competent jurisdiction, the remaining provisions shall nonetheless be enforceable according to their terms. Further, if any provision is held to be over broad as written, such provision shall be deemed amended to narrow its application to the extent necessary to make the provision enforceable according to applicable law and shall be enforced as amended.

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e. Assignment. Amedica may assign its rights and obligations hereunder to any person or entity that succeeds to all or substantially all of Amedica's business or that aspect of Amedica's business in which Abitbol is principally involved. Abitbol's rights and obligations under this Agreement may not be assigned by that Abitbol without the prior written consent of Amedica.

f. Benefit. All statements, representations, warranties, covenants and agreements in this Agreement shall be binding on the parties hereto and shall inure to the benefit of the respective successors and permitted assigns of each party hereto. Nothing in this Agreement shall be construed to create any rights or obligations except between the parties hereto, and no person or entity shall be regarded as a third-party beneficiary of this Agreement, other than any future parent, subsidiary or affiliate of Amedica.

g. Entire Agreement. This Agreement embodies the entire agreement and understanding between and among the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement of any kind not expressly set forth in this Agreement shall affect, or be used to interpret, change or restrict, the express terms and provisions of this Agreement.

h. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended only by written agreement executed by the parties hereto.

i. Waivers and Consents. The terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be

deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

j. Construction. The parties have participated equally in the formation of this Agreement and the language of this Agreement will not be presumptively construed against either party.

k. Counterparts. This Agreement may be executed in one or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

l. Section Numbers and Headings. The Section and Subsection headings and numbers used herein are for purposes of convenience and shall not be considered in the interpretation of this Agreement.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

IN WITNESS WHEREOF this 16th day of February 2005.

AMEDICA

ADDRESS:

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

AMEDICA CORP.
A DELAWARE CORPORATION

/s/ Eugene B. Jones
Eugene B. Jones
Vice President, Finance & CFO

ABITBOL

ADDRESS:

Jean-Jacques Abitbol M.D.
[*****]
[*****]
[*****]

/s/ Jean-Jacques Abitbol
Jean-Jacques Abitbol, M.D.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

SCHEDULE A

Devices

The Devices consist of the following, [*****]:

1. [*****]
2. [*****]
3. [*****]
4. [*****]
5. [*****]
6. [*****]
7. [*****]
8. [*****]
9. [*****]

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

SCHEDULE B

List of Collaborators

[*****]

[1] [*****]

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

SCHEDULE C

Prior Rights

18

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

DEVELOPMENT AGREEMENT

This Development Agreement (this "Agreement") is made and entered into as of the 21st day of February 2005 (the "Effective Date"), by and between AMEDICA CORP., a Delaware corporation ("Amedica"), and GREGG S. GURWITZ, M.D. ("Gurwitz").

RECITALS:

A. Amedica is in the business of designing, developing and selling various products and applications for medical and biomedical uses and from various materials, including the use of advanced ceramic materials.

B. Amedica desires to continue to encourage, through collaboration among two or more professionals ("Collaborators"), the conceiving, development, testing, marketing and dealing with novel devices for implant in or use with the spine in medical and surgical procedures ("Devices"), whether manufactured from ceramic materials or other materials.

C. Gurwitz is an orthopedic surgeon having knowledge and expertise relating to the spine.

D. The parties desire to enter into arrangements between the parties to assist in, the future development, approval, trial and clinical use of Devices.

NOW, THEREFORE, for and in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree and represent as follows:

1. Definitions. For purposes of this Agreement, the following terms shall have the following definitions:

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

a. "Development Services" means the development and related services as requested by Amedica relating to the conceptualization, development, testing, approval and related matters involving the Devices more fully described in Section 2, below.

b. "Devices" means all ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials, whether or not patentable, including all rights to obtain, perfect or enforce any proprietary interests therein, in the Field of Interest, which Gurwitz, whether alone or in concert with others, may conceive, reduce to practice or develop during the Term (or, if based on or related to any confidential or proprietary information of Amedica, within [*****] after the termination of this Agreement), alone or in conjunction with another, or others, whether during or out of regular business hours, and whether at the request or upon the suggestion of Amedica, or otherwise. These Devices include but are not limited to those items more fully identified on Schedule A attached hereto.

c. "Field of Interest" means the development, testing and commercializing of biomedical or surgical devices, covered by current Amedica patent applications and further Amedica developments, and utilizing ceramic materials, intended for use in diagnosing, preventing or treating diseases or conditions affecting the spine or related structure or tissues or any applications thereof. Amedica may expand or otherwise change the definition of its Field of Interest at any time, as long as this expansion continues to be related to ceramic materials, which new definition will be binding upon Gurwitz ten (10) days after written notice to Gurwitz thereof.

d. "Collaborators" refer to the list of professionals more fully identified on Schedule B attached hereto.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

2. Cooperative Development Arrangements. The parties intend that Gurwitz, in collaboration and cooperation with the Collaborators shall diligently perform the Development Services and provide reasonable input and expertise from Gurwitz and each Collaborator hereunder. The Development Services shall include, without limitation, the following

a. Examining and reviewing the characteristics of the Devices and the nature of the materials with which the Devices are constructed.

b. Providing expertise in ideas and testing pertaining to the Devices, and coordination with other Amedica personnel and third parties related to such testing, as requested by Amedica.

c. Providing guidance and assistance in the clinical details of the Devices.

d. Using commercially reasonable efforts to generate interest in the Devices from companies who may seek to enter into a transaction with Amedica relating to the Devices.

e. Assisting in the filing of provisional patents and other patents pertaining to the Devices as determined by Amedica.

f. Assisting in applying for or otherwise seeking regulatory approval for the Devices or surgical processes for their implantation or other use.

3. Term and Termination.

a. The term (the "Term") of this Agreement shall commence as of the Effective Date and shall continue until the later of: (i) ten (10) years from the date hereof; or (ii) the expiration of patent rights on the Devices, unless earlier terminated as provided hereunder.

b. Either party has the right to terminate this Agreement at any time upon thirty (30) days' prior written notice to the other. In such event, Amedica shall be obligated to continue to pay royalty payments earned for Devices resulting from Gurwitz's Development Services up to the date of termination.

Upon the death or termination of another Collaborator, not resulting in the termination of the Agreement by Gurwitz and any other Collaborator, this Agreement shall continue (subject to Subsection 3(b) above) as to Gurwitz and remaining Collaborator(s); provided, that the remaining parties to this Agreement shall, as soon as reasonably possible, negotiate in good faith any modifications to Gurwitz's duties and compensation as may be appropriate under the circumstances.

4. Facilities. To the extent necessary, Amedica shall provide Gurwitz office space, equipment, telephone, secretarial help and all other equipment and related services necessary for the performance of the Development Services hereunder.

5. Exclusivity. Amedica acknowledges that Gurwitz has other professional business and investment dealings in addition to his responsibilities under this Agreement and that Gurwitz will not be required to devote his time exclusively to his responsibilities hereunder. Notwithstanding any provision herein to the contrary, Gurwitz agrees that during the Term, Amedica shall have the exclusive right to the Devices.

6. Confidentiality.

a. Both during the Term and following termination of this Agreement for any reason, except as necessary for the performance of the Development Services hereunder, Gurwitz shall not, at any time or in any manner, directly or indirectly, use, divulge, disclose or communicate to any third-person or entity any information that was disclosed to or developed by Gurwitz during the course of performing the Development Services and which is not generally available to the public, including, without limiting the generality of the foregoing: information

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

regarding matters affecting or relating to Amedica's business or its Devices; the nature of Amedica's properties or products, whether developed or under development; the identity of Amedica's customers; prices which Amedica obtains or has obtained with respect to its products or services; information as to Amedica's discussions, negotiations and/or dealings with actual or potential third-party buyers, investors, licensees or co-venturers; Amedica's costs, overhead or profit margin; or Amedica's operational methods or its business plans and processes.

b. Records. Promptly following termination of this Agreement, Gurwitz shall deliver to Amedica any and all property of Amedica which may be in his possession including products, materials, memoranda, notes, records, reports, writings, drawings, diskettes, models and other materials or other documents or photocopies of the same in any tangible form whatsoever constituting confidential or proprietary information of Amedica, and any of the foregoing in intangible form.

7. Covenant Not to Compete.

a. Certain Acknowledgments and Agreements. Gurwitz recognizes and acknowledges the competitive and proprietary nature of Amedica's business operations. Gurwitz acknowledges and agrees that a business will be deemed competitive with Amedica if it engages in a line of business in which it develops, manufactures or sells any products provided or offered by Amedica or any similar products, or products fulfilling the same function, in the Field of Interest (such business to be referred to as a "Competitive Business").

b. Gurwitz agrees that during the Term and for an additional [*****] after termination of this Agreement (which period shall be tolled during the period of any violation or breach of any of the provisions hereof and for a period of [*****] thereafter), whether such termination is voluntary or involuntary, Gurwitz shall not:

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

(i) for his benefit, or on behalf of any other person or entity, directly or indirectly, as principal, agent, stockholder, employee, consultant, representative or in any other capacity, own, manage, operate or control, or be concerned, connected or employed by, or otherwise associate in any manner with, engage in or have a financial interest in any Competitive Business anywhere in the continental United States of America (the "Restricted Territory"), except that nothing contained herein shall preclude Gurwitz from purchasing or owning securities of any such business if such securities are publicly traded, and provided that his holdings do not exceed one percent (1%) of the issued and outstanding securities of any class of securities of such business; or

(ii) either individually or on behalf of or through any third party, solicit, divert or appropriate or attempt to solicit, divert or appropriate, any known customers or patrons of Amedica; or

(iii) either individually or on behalf of or through any third party, directly or indirectly, solicit, entice or persuade or attempt to solicit, entice or persuade any other employees of or consultants to Amedica or any present or future parent, subsidiary or affiliate of Amedica to leave the services of Amedica or any such parent, subsidiary or affiliate for any reason.

c. Reasonableness of Restrictions. Gurwitz further recognizes and acknowledges that: (i) the restrictions in this Section 8 are reasonable in relation to the skills which represent his principal salable asset both to Amedica and to any prospective employers, and (ii) the geographical scope of the provisions of this Section 7 is reasonable, legitimate and fair to Gurwitz in light of Amedica's need to market its services and sell its products worldwide in order to have a sufficient customer base to make Amedica's business profitable and in light of the limited restrictions on the type of employment prohibited herein compared to the types of employment for which Gurwitz is qualified to earn his livelihood.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

d. Survival of Acknowledgments and Agreements. The acknowledgments and agreements set forth in this Section 7 shall survive the expiration or termination of this Agreement and the termination of Gurwitz's employment, or consulting arrangements, with Amedica for any reason.

8. Ownership of Ideas, Copyrights and Patents.

a. Disclosure of Devices. Gurwitz agrees that he will promptly disclose all Devices to Amedica and that he will not publish any Devices, or any information with regard thereto, without the prior written consent of Amedica.

b. Property of Amedica. Amedica shall have the sole and exclusive right, even as to Gurwitz, to prepare, file, prosecute, obtain and maintain any and all patents and patent applications claiming any Devices. All Devices shall be the sole and exclusive property of Amedica and, subject to payment pursuant to the provisions of Section 3 hereof, Gurwitz hereby assigns to Amedica all of his right, title and interest in and to all of the Devices. Gurwitz further agrees to use his best efforts to ensure that no Devices will violate or infringe upon any right, patent, copyright, trademark or right of privacy, or constitute libel or slander against or violate any other rights of any person, firm or corporation.

c. Prior Rights. Gurwitz has attached hereto as Schedule C (i) a list of all proprietary concepts and inventions in which he has any right, title, or interest as of the date of his execution of this Agreement ("Prior Rights"), and (ii) a list of all Prior Rights made, conceived, or developed, in whole or in part, by Gurwitz prior to the date of his execution of this Agreement, and Gurwitz represents that Schedule C is a complete and accurate list of all Prior rights.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

d. Cooperation. Gurwitz hereby agrees to willfully cooperate with Amedica, its attorneys and agents in the preparation and filing of all papers and other documents as may be required to perfect Amedica's rights in and to any Devices, including, but not limited to, performing all acts deemed necessary or desirable by Amedica (both during the Term and for a period of [*****] after expiration of this Agreement) and joining in any proceeding to obtain letters patent, copyrights, trademarks or other legal rights of the United States of America and of any and all other countries to Devices; provided, that, Amedica will bear the expense of all such proceedings. Gurwitz hereby agrees that any patent or other legal right covering any Device issued to Gurwitz personally, shall be assigned by Gurwitz to Amedica without charge by Gurwitz, except as specifically provided under Section 3 hereof.

e. Works Made For Hire. Without limiting the foregoing, Gurwitz further acknowledges that all original works of authorship made by such Gurwitz, within the Field of Interest, whether alone or jointly with others in the performance of the Development Services and which are protectable by copyright are "works made for hire" within the meaning of the United States Copyright Act, 17 U.S.C. § 101, as amended, the copyright of which shall be owned solely, completely and exclusively by Amedica. If any Device is considered to be work not included in the categories of work covered by the United States Copyright Act, 17 U.S.C. § 101, as amended, such work shall be owned solely by, or hereby assigned or transferred completely and exclusively to, Amedica.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

9. Representations and Warranties Regarding Prior Work and Legal Obligations.

a. Gurwitz hereby represents and warrants that he has no commitments or obligations with any prior employer or any other person or entity that, would restrict his ability to perform the Development Services, or is inconsistent with this Agreement and Gurwitz hereby agrees to indemnify and hold Amedica harmless against loss, damage, liability or expense arising from any claim based upon circumstances alleged to be inconsistent with such representation and warranty.

b. Gurwitz represents that he has been advised by Amedica that at no time should he divulge to, or use for the benefit of, Amedica any trade secret or confidential or proprietary information of any previous employer. Gurwitz acknowledges that he has not divulged or used any such information for the benefit of Amedica.

c. Gurwitz represents that he has not and will not misappropriate any invention that he played any part in creating while working for any former employer.

d. Gurwitz acknowledges that Amedica is basing important business decisions on these representations, and affirms that all of the statements included herein are true.

10. Equitable Remedies. Gurwitz acknowledges that the breach of the provisions of Sections 6, 7, 8 and 9 above shall constitute irreparable damage to Amedica and, accordingly, Amedica may, in addition to all other available remedies under law and equity, obtain injunctive relief upon an alleged violation of such Sections pending resolution on the merits of any claims raised by Amedica hereunder.

11. Stock Option Arrangements. As further consideration hereunder, the parties agree in good faith to negotiate an agreement granting Gurwitz certain rights to obtain options for the purchase of Amedica common stock. The nature, amount and terms of such options shall be agreed upon by the parties in good-faith as soon as reasonably possible.

12. Development Agreement Only. This Agreement constitutes a development agreement only. Nothing herein is intended, nor shall it be construed, to create any employer/ employee arrangement, partnership arrangement or other relationship between or among the parties except as expressly provided herein; and nothing herein is intended to grant to either party any right or interest in or to the assets, business or interests of the other party, nor the right to bind the other party except as expressly herein provided.

13. Compliance with Laws and Regulations. The parties, at all times, shall interpret and apply the provisions of this Agreement strictly in accordance with all applicable laws and regulations, including, but not limited to, the so-called Stark federal anti-referral law and all Medicare and Medicaid laws and regulations.

If any provision of this Agreement is found, by any applicable court or government agency, to be in conflict with any applicable law or regulation, the provisions of such law or regulation shall govern; and the interpretation and operation under this Agreement shall be modified accordingly.

14. Indemnification by Amedica.

a. Amedica will indemnify and hold Gurwitz harmless from any and all claims, costs, judgments and expenses involving (i) any claim that any Device infringes or interferes with any patent or other proprietary claim of any third-party, and (ii) to the extent claimed or proven to be solely due to Device design or manufacturing defect (including reasonable attorneys' fees) of whatever sort based on claims of product design or manufacturing defects whether sounding in negligence, strict liability at law, contract or statutory violation, and (iii) any breach by Amedica of any provision of this Agreement.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

b. Any indemnification provided by Amedica hereunder shall not apply to any claim insofar as that claim (i) relates to a professional medical liability or malpractice claim brought against Gurwitz for professional acts or omissions in connection with the medical care or treatment associated with a Device; (ii) arises from any breach by Gurwitz of any provision of this Agreements; or (iii) arises from any knowing submission by Gurwitz of false data to Amedica or from any other intentional wrongdoing by Gurwitz.

c. Promptly upon Gurwitz's receipt of information concerning the commencement of any third-party claim, demand, action, suit or proceeding (collectively, "Action") which is the subject of indemnification hereunder, Gurwitz shall notify Amedica in writing of the commencement of the Action. Any failure to provide such prompt notice shall relieve Amedica of its indemnification obligations to the extent Amedica has been materially prejudiced by such failure. Amedica may select counsel at its own expense and control the defense of such indemnity claim; and Gurwitz may participate jointly with Amedica in such defense, at Gurwitz's expense, in which event the parties shall reasonably cooperate with each other subject, however, to Amedica's ultimate control of the defense. With respect to any Action relating solely to the payment of money damages, Amedica shall have the sole right to defend, settle, or otherwise dispose of such claim on such terms as Amedica, in its sole discretion, shall deem appropriate; provided, that Amedica shall provide reasonable evidence of its ability to pay any damages claimed. If the Action involves any claim in which Gurwitz would become subject to injunctive relief or to other equitable relief, or Gurwitz's business would be adversely affected in any manner, Amedica shall settle that claim only upon the written consent of Gurwitz, which shall not be unreasonably withheld.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

15. Indemnification by Gurwitz. Except to the extent that any such claims arise through the wrongful act or neglect of Amedica, Gurwitz will indemnify and hold Amedica harmless from any and all claims, costs, judgments and expenses arising from any breach by Gurwitz of any provision of this Agreement.

16. General.

a. Notices. All notices required or permitted to be given to a party hereunder shall be mailed by certified mail or registered mail, postage prepaid, to that party's address set forth on the signature page of this Agreement (or to such other address specified in writing).

b. Default. If either party defaults in any of the covenants or provisions herein, the defaulting party shall pay all costs and attorneys' fees incurred by the other party in enforcing its rights arising hereunder.

c. Governing Law and Venue. This Agreement shall be interpreted, performed and enforced according to the laws of Utah. Venue for any action hereof shall lie with the Third Judicial District Court of the State of Utah for the United States District Court for the District of Utah, Central Division.

d. Unenforceable Provision. If any provision of this Agreement is deemed unenforceable by any court of competent jurisdiction, the remaining provisions shall nonetheless be enforceable according to their terms. Further, if any provision is held to be over broad as written, such provision shall be deemed amended to narrow its application to the extent necessary to make the provision enforceable according to applicable law and shall be enforced as amended.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

e. Assignment. Amedica may assign its rights and obligations hereunder to any person or entity that succeeds to all or substantially all of Amedica's business or that aspect of Amedica's business in which Gurwitz is principally involved. Gurwitz's rights and obligations under this Agreement may not be assigned by that Gurwitz without the prior written consent of Amedica.

f. Benefit. All statements, representations, warranties, covenants and agreements in this Agreement shall be binding on the parties hereto and shall inure to the benefit of the respective successors and permitted assigns of each party hereto. Nothing in this Agreement shall be construed to create any rights or obligations except between the parties hereto, and no person or entity shall be regarded as a third-party beneficiary of this Agreement, other than any future parent, subsidiary or affiliate of Amedica.

g. Entire Agreement. This Agreement embodies the entire agreement and understanding between and among the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement of any kind not expressly set forth in this Agreement shall affect, or be used to interpret, change or restrict, the express terms and provisions of this Agreement.

h. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended only by written agreement executed by the parties hereto.

i. Waivers and Consents. The terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

j. Construction. The parties have participated equally in the formation of this Agreement and the language of this Agreement will not be presumptively construed against either party.

k. Counterparts. This Agreement may be executed in one or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

l. Section Numbers and Headings. The Section and Subsection headings and numbers used herein are for purposes of convenience and shall not be considered in the interpretation of this Agreement.

IN WITNESS WHEREOF this 21st day of February, 2005.

AMEDICA

Address:

AMEDICA CORP.
A Delaware corporation

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

/s/ Eugene B. Jones
Eugene B. Jones
Vice President Finance & CFO

GURWITZ

Address:

Gregg S. Gurwitz, M.D.
[*****]
[*****]

/s/ Gregg S. Gurwitz
GREGG S. GURWITZ, M.D.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

SCHEDULE A

Devices

The Devices consist of [*****].

A-1

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

SCHEDULE B

List of Collaborators

[*****]

- [1] [*****]
- [2] [*****], and
- [3] [*****]

[*****]

- [1] [*****]
- [2] [*****]
- [3] [*****], and
- [4] [*****]

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

SCHEDULE C

Prior Rights

C-1

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

DEVELOPMENT AGREEMENT

This Development Agreement (this "Agreement") is made and entered into as of the 19th day of April, 2005 (the "Effective Date"), by and between AMEDICA CORP., a Delaware corporation ("Amedica"), and Andrew T. Dailey, M.D. ("Dailey"):

RECITALS:

A. Amedica is in the business of designing, developing and selling various products and applications for medical and biomedical uses and from various materials, including the use of advanced ceramic materials.

B. Amedica desires to continue to encourage, through collaboration among two or more professionals ("Collaborators"), the conceiving, development, testing, marketing and dealing with novel devices for implant in or use with the spine in medical and surgical procedures ("Devices"), whether manufactured from ceramic materials or other materials.

C. Dailey is a neurosurgeon having knowledge and expertise relating to the spine.

D. The parties desire to enter into arrangements between the parties to assist in the future development, approval, trial and clinical use of Devices.

NOW, THEREFORE, for and in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree and represent as follows:

1. Definitions. For purposes of this Agreement, the following terms shall have the following definitions:

a. "Development Services" means the development and related services as requested by Amedica relating to the conceptualization, development, testing, approval and related matters involving the Devices more fully described in Section 2, below.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

b. "Devices" means all ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials, whether or not patentable, including all rights to obtain, perfect or enforce any proprietary interests therein, in the Field of Interest, which Dailey, whether alone or in concert with others, may conceive, reduce to practice or develop during the Term (or, if based on or related to any confidential or proprietary information of Amedica, within [*****] after the termination of this Agreement), alone or in conjunction with another, or others, whether during or out of regular business hours, and whether at the request or upon the suggestion of Amedica, or otherwise. These Devices include but are not limited to those items more fully identified on Schedule A attached hereto.

c. "Field of Interest" means the development, testing and commercializing of biomedical or surgical devices, covered by current Amedica patent applications and further Amedica developments, and utilizing ceramic materials, intended for use in diagnosing, preventing or treating diseases or conditions affecting the spine or related structure or tissues or any applications thereof. Amedica may expand or otherwise change the definition of its Field of Interest at any time, as long as this expansion continues to be related to ceramic materials, which new definition will be binding upon Dailey ten (10) days after written notice to Dailey thereof.

d. "Collaborators" refer to the list of professionals more fully identified on Schedule B attached hereto.

2. Cooperative Development Arrangements. The parties intend that

Dailey, in collaboration and cooperation with the Collaborators shall diligently perform the Development Services and provide reasonable input and expertise from Dailey and each Collaborator hereunder. The Development Services shall include, without limitation, the following

- a. Examining and reviewing the characteristics of the Devices and the nature of the materials with which the Devices are constructed.
- b. Providing expertise in ideas and testing pertaining to the Devices, and coordination with other Amedica personnel and third parties related to such testing, as requested by Amedica.
- c. Providing guidance and assistance in the clinical details of the Devices.
- d. Using commercially reasonable efforts to generate interest in the Devices from companies who may seek to enter into a transaction with Amedica relating to the Devices.
- e. Assisting in the filing of provisional patents and other patents pertaining to the Devices as determined by Amedica.
- f. Assisting in applying for or otherwise seeking regulatory approval for the Devices or surgical processes for their implantation or other use.

3. Term and Termination.

- a. The term (the "Term") of this Agreement shall commence as of the Effective Date and shall continue until the later of: (i) ten (10) years from the date hereof; or (ii) the expiration of patent rights on the Devices, unless earlier terminated as provided hereunder.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

b. Either party has the right to terminate this Agreement at any time upon thirty (30) days' prior written notice to the other. In such event, Amedica shall be obligated to continue to pay royalty payments earned for Devices resulting from Dailey's Development Services up to the date of termination.

c. Upon the death or termination of another Collaborator, not resulting in the termination of the Agreement by Dailey and any other Collaborator, this Agreement shall continue (subject to Subsection 3(b) above) as to Dailey and remaining Collaborator(s); provided, that the remaining parties to this Agreement shall, as soon as reasonably possible, negotiate in good faith any modifications to Dailey's duties and compensation as may be appropriate under the circumstances.

4. Compensation for Assignment and Sale Proprietary Rights. As full consideration for the Development Services and any assignment of right in Devices to Amedica pursuant to Section 9 hereof, Amedica shall pay Dailey the total of the following:

a. Dailey shall, in the form of royalty or similar payments, receive the total of up to [*****] of the Net After-Tax Profits as separately agreed upon by Dailey and Amedica; provided, that this is subject to the provisions of Subsections 4(c) and 4(d) below. "Net After-Tax Profits" is defined as that portion of profits received by Amedica attributable to sale of Devices, after deducting from all gross proceeds from such sales the costs and expenses attributable to the development, testing, marketing and sale of the Devices (but not including any Amedica overhead or expenses unrelated to the Devices), and less all sales, use, occupation or excise taxes and all income taxes applicable to income generated from the Devices.

b. Dailey's respective share of the Net After-Tax Profits shall be

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determined by Dailey and Amedica, in good faith, based upon Dailey's contribution to the final form of the Devices, relative to the contributions of Amedica, other Collaborators and any third parties. Such share shall be calculated on a monthly basis, with payment to Dailey of each monthly amount no later than the last day of the following month.

c. Upon Dailey's death, or upon letters from two independent physicians that Dailey is disabled and unable to perform the nature of the Development Services hereunder, this Agreement shall terminate as to Dailey; provided, that Dailey (or Dailey's surviving spouse or estate) shall continue to be entitled to receive the royalties as provided herein, applicable to all Devices completed for marketing prior to the date of death or disability.

d. Notwithstanding any provision herein to the contrary, income used for calculating royalties payable to Dailey hereunder shall not include any sales attributable to the use of any Devices by any hospital or surgical center where Dailey (or a partner, shareholder, employed or contracting physician) currently practices medicine.

No provision under this Agreement, either overtly or covertly, directly or indirectly, requires or contemplates that Dailey make any recommendations to Dailey's patients or health care facilities with respect to Amedica's Devices or other products. There shall be no adjustment to the percentage of royalties, or the rate of any other compensation, if any, resulting from the presence of or absence of, any recommendations of Amedica's Devices or other products to Dailey's patients or health care facilities by Dailey.

e. Amedica shall maintain separate accountings relating to the Devices. Dailey shall, at all times, have reasonable access to examine Amedica's books and records relating to the Devices.

f. Dailey acknowledges that the payment provisions of this Section 4 represent the sole agreement between the parties with regard to Dailey's compensation for all Development Services and any assignment of rights to the Devices; and Amedica shall not be obligated to make, or otherwise be liable for, any additional payment of compensation or reimbursement of expenses with regard to Development Services or the Devices or other similar type payment. It is the parties' intent that this Agreement provide for the "sale or exchange of a capital asset" by Dailey to Amedica under Internal Revenue Code Section 1235 entitled "Sale or Exchange of Patents," and that all payments made to Dailey hereunder shall be taxed as long-term capital gains. Nothing in this Agreement to the contrary shall imply that the parties intend that the payments to Dailey hereunder shall be for anything other than the transfer of all proprietary rights that Dailey may have in the Devices. Amedica is making no warranties or representations, however, as to ultimate taxability of the payments to Dailey hereunder.

5. Facilities. To the extent necessary, Amedica shall provide Dailey office space, equipment, telephone, secretarial help and all other equipment and related services necessary for the performance of the Development Services hereunder.

6. Exclusivity. Amedica acknowledges that Dailey has other professional business and investment dealings in addition to his responsibilities under this Agreement and that Dailey will not be required to devote his time exclusively to his responsibilities hereunder. Notwithstanding any provision herein to the contrary, Dailey agrees that during the Term, Amedica shall have the exclusive right to the Devices.

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7. Confidentiality.

a. Both during the Term and following termination of this Agreement for any reason, except as necessary for the performance of the Development Services hereunder, Dailey shall not, at any time or in any manner, directly or indirectly, use, divulge, disclose or communicate to any third-person or entity any information that was disclosed to or developed by Dailey during the course of performing the Development Services and which is not generally available to the public, including, without limiting the generality of the foregoing: information regarding matters affecting or relating to Amedica's business or its Devices; the nature of Amedica's properties or products, whether developed or under development; the identity of Amedica's customers; prices which Amedica obtains or has obtained with respect to its products or services; information as to Amedica's discussions, negotiations and/or dealings with actual or potential third-party buyers, investors, licensees or co-venturers; Amedica's costs, overhead or profit margin; or Amedica's operational methods or its business plans and processes. All material as such will be labeled "confidential".

b. Records. Promptly following termination of this Agreement, Dailey shall deliver to Amedica any and all property of Amedica which may be in his possession including products, materials, memoranda, notes, records, reports, writings, drawings, diskettes, models and other materials or other documents or photocopies of the same in any tangible form whatsoever constituting confidential or proprietary information of Amedica, and any of the foregoing in intangible form.

8. Covenant Not to Compete.

a. Certain Acknowledgments and Agreements. Dailey recognizes and

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acknowledges the competitive and proprietary nature of Amedica's business operations. Dailey acknowledges and agrees that a business will be deemed competitive with Amedica if it engages in a line of business in which it develops, manufactures or sells any products provided or offered by Amedica or any similar products, or products fulfilling the same function, in the Field of Interest (such business to be referred to as a "Competitive Business").

b. Dailey agrees that during the Term and for an additional [*****] after termination of this Agreement (which period shall be tolled during the period of any violation or breach of any of the provisions hereof and for a period of [*****] thereafter), whether such termination is voluntary or involuntary, Dailey shall not:

(i) for his benefit, or on behalf of any other person or entity, directly or indirectly, as principal, agent, stockholder, employee, consultant, representative or in any other capacity, own, manage, operate or control, or be concerned, connected or employed by, or otherwise associate in any manner with, engage in or have a financial interest in any Competitive Business anywhere in the continental United States of America (the "Restricted Territory"), except that nothing contained herein shall preclude Dailey from purchasing or owning securities of any such business if such securities are publicly traded, and provided that his holdings do not exceed one percent (1%) of the issued and outstanding securities of any class of securities of such business; or

(ii) either individually or on behalf of or through any third party, solicit, divert or appropriate or attempt to solicit, divert or appropriate, any known customers or patrons of Amedica; or

(iii) either individually or on behalf of or through any third party, directly or indirectly, solicit, entice or persuade or attempt to solicit, entice or persuade any other employees of or consultants to Amedica or any present or future parent, subsidiary or affiliate of Amedica to leave the services of Amedica or any such parent, subsidiary or affiliate for any reason.

c. Reasonableness of Restrictions. Dailey further recognizes and acknowledges that: (i) the restrictions in this Section 8 are reasonable in relation to the skills which represent his principal salable asset both to Amedica and to any prospective employers, and (ii) the geographical scope of the provisions of this Section 7 is reasonable, legitimate and fair to Dailey in light of Amedica's need to market its services and sell its products worldwide in order to have a sufficient customer base to make Amedica's business profitable and in light of the limited restrictions on the type of employment prohibited herein compared to the types of employment for which Dailey is qualified to earn his livelihood.

d. Survival of Acknowledgments and Agreements. The acknowledgments and agreements set forth in this Section 8 shall survive the expiration or termination of this Agreement and the termination of Dailey's employment, or consulting arrangements, with Amedica for any reason.

9. Ownership of Ideas, Copyrights and Patents.

a. Disclosure of Devices. Dailey agrees that he will promptly disclose all Devices to Amedica and that he will not publish any Devices, or any information with regard thereto, without the prior written consent of Amedica.

b. Property of Amedica. Amedica shall have the sole and exclusive right, even as to Dailey, to prepare, file, prosecute, obtain and maintain any and all patents and patent applications claiming any Devices. All Devices shall be the sole and exclusive property of Amedica and, subject to payment pursuant to the provisions of Section 3 hereof, Dailey hereby assigns to Amedica all of his right, title and interest in and to all of the Devices. Dailey further agrees to use his best efforts to ensure that no Devices will violate or infringe upon any right, patent, copyright, trademark or right of privacy, or constitute libel or slander against or violate any other rights of any person, firm or corporation.

c. Prior Rights. Dailey has attached hereto as Schedule C (i) a list of all proprietary concepts and inventions in which he has any right, title, or interest as of the date of his execution of this Agreement (“Prior Rights”), and (ii) a list of all Prior Rights made, conceived, or developed, in whole or in part, by Dailey prior to the date of his execution of this Agreement, and Dailey represents that Schedule C is a complete and accurate list of all Prior rights.

d. Cooperation. Dailey hereby agrees to willfully cooperate with Amedica, its attorneys and agents in the preparation and filing of all papers and other documents as may be required to perfect Amedica’s rights in and to any Devices, including, but not limited to, performing all acts deemed necessary or desirable by Amedica (both during the Term and for a period of [*****] after expiration of this Agreement) and joining in any proceeding to obtain letters patent, copyrights, trademarks

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or other legal rights of the United States of America and of any and all other countries to Devices; provided, that, Amedica will bear the expense of all such proceedings. Dailey hereby agrees that any patent or other legal right covering any Device issued to Dailey personally, shall be assigned by Dailey to Amedica without charge by Dailey, except as specifically provided under Section 3 hereof.

e. Works Made For Hire. Without limiting the foregoing, Dailey further acknowledges that all original works of authorship made by such Dailey, within the Field of Interest, whether alone or jointly with others in the performance of the Development Services and which are protectable by copyright are “works made for hire” within the meaning of the United States Copyright Act, 17 U.S.C. § 101, as amended, the copyright of which shall be owned solely, completely and exclusively by Amedica. If any Device is considered to be work not included in the categories of work covered by the United States Copyright Act, 17 U.S.C. § 101, as amended, such work shall be owned solely by, or hereby assigned or transferred completely and exclusively to, Amedica.

10. Representations and Warranties Regarding Prior Work and Legal Obligations.

a. Dailey hereby represents and warrants that he has no commitments or obligations with any prior employer or any other person or entity that, would restrict his ability to perform the Development Services, or is inconsistent with this Agreement and Dailey hereby agrees to indemnify and hold Amedica harmless against loss, damage, liability or expense arising from any claim based upon circumstances alleged to be inconsistent with such representation and warranty.

b. Dailey represents that he has been advised by Amedica that at no

time should he divulge to, or use for the benefit of, Amedica any trade secret or confidential or proprietary information of any previous employer. Dailey acknowledges that he has not divulged or used any such information for the benefit of Amedica.

c. Dailey represents that he has not and will not misappropriate any invention that he played any part in creating while working for any former employer.

d. Dailey acknowledges that Amedica is basing important business decisions on these representations, and affirms that all of the statements included herein are true.

11. Equitable Remedies. Dailey acknowledges that the breach of the provisions of Sections 7, 8, 9 and 10 above shall constitute irreparable damage to Amedica and, accordingly, Amedica may, in addition to all other available remedies under law and equity, obtain injunctive relief upon an alleged violation of such Sections pending resolution on the merits of any claims raised by Amedica hereunder.

12. Stock Option Arrangements. As further consideration hereunder, the parties agree in good faith to negotiate an agreement granting Dailey certain rights to obtain options for the purchase of Amedica stock. The nature, amount and terms of such options shall be agreed upon by the parties in good-faith as soon as reasonably possible.

13. Development Agreement Only. This Agreement constitutes a development agreement only. Nothing herein is intended, nor shall it be construed, to create any employer/ employee arrangement, partnership arrangement or other relationship between or among the parties except as expressly provided herein; and nothing herein is intended to grant to either party any right or interest in or to the assets, business or interests of the other party, nor the right to bind the other party except as expressly herein provided.

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14. Compliance with Laws and Regulations. The parties, at all times, shall interpret and apply the provisions of this Agreement strictly in accordance with all applicable laws and regulations, including, but not limited to, the so-called Stark federal anti-referral law and all Medicare and Medicaid laws and regulations.

If any provision of this Agreement is found, by any applicable court or government agency, to be in conflict with any applicable law or regulation, the provisions of such law or regulation shall govern; and the interpretation and operation under this Agreement shall be modified accordingly.

15. Indemnification by Amedica.

a. Amedica will indemnify and hold Dailey harmless from any and all claims, costs, judgments and expenses involving (i) any claim that any Device infringes or interferes with any patent or other proprietary claim of any third-party, and (ii) to the extent claimed or proven to be solely due to Device design or manufacturing defect (including reasonable attorneys' fees) of whatever sort based on claims of product design or manufacturing defects whether sounding in negligence, strict liability at law, contract or statutory violation, and (iii) any breach by Amedica of any provision of this Agreement.

b. Any indemnification provided by Amedica hereunder shall not apply to any claim insofar as that claim (i) relates to a professional medical liability or malpractice claim brought against Dailey for professional acts or omissions in connection with the medical care or treatment associated with a Device; (ii) arises from any breach by Dailey of any provision of this Agreement; or (iii) arises from any knowing submission by Dailey of false data to Amedica or from any other intentional wrongdoing by Dailey.

c. Promptly upon Dailey's receipt of information concerning the commencement of any third-party claim, demand, action, suit or proceeding (collectively, "Action") which is the subject of indemnification hereunder, Dailey shall notify Amedica in writing of the commencement of the Action. Any failure to provide such prompt notice shall relieve Amedica of its indemnification obligations to the extent Amedica has been materially prejudiced by such failure. Amedica may select counsel at its own expense and control the defense of such indemnity claim; and Dailey may participate jointly with Amedica in such defense, at Dailey's expense, in which event the parties shall reasonably cooperate with each other subject, however, to Amedica's ultimate control of the defense. With respect to any Action relating solely to the payment of money damages, Amedica shall have the sole right to defend, settle, or otherwise dispose of such claim on such terms as Amedica, in its sole discretion, shall deem appropriate; provided, that Amedica shall provide reasonable evidence of its ability to pay any damages claimed. If the Action involves any claim in which Dailey would become subject to injunctive relief or to other equitable relief, or Dailey's business would be adversely affected in any manner, Amedica shall settle that claim only upon the written consent of Dailey, which shall not be unreasonably withheld.

16. Indemnification by Dailey. Except to the extent that any such claims arise through the wrongful act or neglect of Amedica, Dailey will indemnify and hold Amedica harmless from any and all claims, costs, judgments and expenses arising from any breach by Dailey of any provision of this Agreement.

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17. General.

a. Notices. All notices required or permitted to be given to a party hereunder shall be mailed by certified mail or registered mail, postage prepaid, to that party's address set forth on the signature page of this Agreement (or to such other address specified in writing).

b. Default. If either party defaults in any of the covenants or provisions herein, the defaulting party shall pay all costs and attorneys' fees incurred by the other party in enforcing its rights arising hereunder.

c. Governing Law and Venue. This Agreement shall be interpreted, performed and enforced according to the laws of Utah. Venue for any action hereof shall lie with the Third Judicial District Court of the State of Utah for the United States District Court for the District of Utah, Central Division.

d. Unenforceable Provision. If any provision of this Agreement is deemed unenforceable by any court of competent jurisdiction, the remaining provisions shall nonetheless be enforceable according to their terms. Further, if any provision is held to be over broad as written, such provision shall be deemed amended to narrow its application to the extent necessary to make the provision enforceable according to applicable law and shall be enforced as amended.

e. Assignment. Amedica may assign its rights and obligations hereunder to any person or entity that succeeds to all or substantially all of Amedica's business or that aspect of Amedica's business in which Dailey is principally involved. Dailey's rights and obligations under this Agreement may not be assigned by that Dailey without the prior written consent of Amedica.

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f. Benefit. All statements, representations, warranties, covenants and agreements in this Agreement shall be binding on the parties hereto and shall inure to the benefit of the respective successors and permitted assigns of each party hereto. Nothing in this Agreement shall be construed to create any rights or obligations except between the parties hereto, and no person or entity shall be regarded as a third-party beneficiary of this Agreement, other than any future parent, subsidiary or affiliate of Amedica.

g. Entire Agreement. This Agreement embodies the entire agreement and understanding between and among the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement of any kind not expressly set forth in this Agreement shall affect, or be used to interpret, change or restrict, the express terms and provisions of this Agreement.

h. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended only by written agreement executed by the parties hereto.

i. Waivers and Consents. The terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

j. Construction. The parties have participated equally in the formation of this Agreement and the language of this Agreement will not be presumptively construed against either party.

k. Counterparts. This Agreement may be executed in one or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

l. Section Numbers and Headings. The Section and Subsection headings and numbers used herein are for purposes of convenience and shall not be considered in the interpretation of this Agreement.

IN WITNESS WHEREOF this 4th day of May, 2005.

AMEDICA

ADDRESS:

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

AMEDICA CORP.
A DELAWARE CORPORATION

By: /s/ Ashok Khandkar
Its: President and CEO

DAILEY

ADDRESS:

Andrew T. Dailey

[*****]
[*****]

/s/ Andrew T. Dailey, M.D.
ANDREW T. DAILEY, M.D.

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SCHEDULE A

Devices

The Devices consist of the following, [*****]:

1. [*****]
2. [*****]
3. [*****]
4. [*****]

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SCHEDULE B

List of Collaborators

[*****]

- [1] [*****]
- [2] [*****], and
- [3] [*****]

[*****]

- [1] [*****]
- [2] [*****]
- [3] [*****], and
- [4] [*****]

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SCHEDULE C

Prior Rights

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DEVELOPMENT AGREEMENT

This Development Agreement (this "Agreement") is made and entered into as of the 21st day of July, 2005 (the "Effective Date"), by and between AMEDICA CORP., a Delaware corporation ("Amedica"), and Scott D. Boden, M.D. ("Boden").

RECITALS:

A. Amedica is in the business of designing, developing and selling various products and applications for medical and biomedical uses that are made from various materials, including advanced ceramic materials.

B. Amedica desires to continue to encourage the development, testing and clinical training for novel Devices (as defined herein) for implant in or use with the spine in medical and surgical procedures, whether manufactured from ceramic materials or other materials.

C. Boden offers clinical knowledge and experience relating to the spine.

D. The parties desire to enter into an agreement to assist in the future development, approval, trial and clinical use of Devices.

E. Boden desires the right to assign to an entity controlled by Boden the rights and obligations of Boden hereunder.

NOW, THEREFORE, for and in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree and represent as follows:

1. **Definitions.** For purposes of this Agreement, the following terms shall have the following definitions:

a. "Development Services" means the development and related services as requested by Amedica relating to the conceptualization, development, testing, approval and related matters involving the Devices more fully described in Section 2, below.

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b. "Devices" means all ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials, whether or not patentable, including all rights to obtain, perfect or enforce any proprietary interests therein, in the Field of Interest, which Boden, whether alone or in concert with others, may conceive, reduce to practice or develop during the Term (or, if based on or related to any confidential or proprietary information of Amedica, within [*****] after the termination of this Agreement), alone or in conjunction with another, or others, whether during or out of regular business hours, and whether at the request or upon the suggestion of Amedica, or otherwise. These Devices include but are not limited to those items more fully identified on Schedule A attached hereto.

c. "Field of Interest" means the development, testing and commercializing of biomedical or surgical devices, covered by current Amedica patent applications and further Amedica developments, including ceramic and metallic materials, intended for use in diagnosing, preventing or treating diseases or conditions affecting the spine or related structure or tissues or any applications thereof. Amedica may expand or otherwise change the definition of its Field of Interest at any time, as long as this expansion continues to be related solely to ceramic materials, which new definition will be binding upon Boden ten (10) days after written notice to Boden thereof

2. Development Arrangements. The parties intend that Boden shall diligently perform the Development Services which shall include, without limitation, the following:

a. Examining and reviewing the characteristics of the Devices and the nature of the materials with which the Devices are constructed.

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- b. Offering experience on ideas and testing pertaining to the Devices, and coordinating with other Amedica personnel and third parties related to such testing, as requested by Amedica.
 - c. Providing guidance and assistance in the clinical details of the Devices.
 - d. Assisting in the filing of provisional patents and other patents pertaining to the Devices as determined by Amedica.
 - e. Assisting in applying for or otherwise seeking regulatory approval for the Devices or surgical processes for their implantation or other use.

3. Performance by Entity. Amedica agrees and consents that Boden may assign to an entity Boden's rights and obligations hereunder, provided that:

- a. The entity shall be under Boden's control; and the entity shall provide for the entity's services to be performed by Boden, except as otherwise agreed to by Amedica, which consent shall not be unreasonably withheld.
- b. Boden shall continue to be personally subject to and bound by the provisions of Sections 7 through 11, inclusive, of this Agreement.

4. Term and Termination.

- a. The term (the "Term") of this Agreement shall commence as of the Effective Date and shall continue until the later of: (i) ten (10) years from the date hereof; or (ii) the expiration of the final remaining patent rights on the last of the Devices, unless earlier terminated as provided hereunder.
- b. Either party has the right to terminate this Agreement at any time upon thirty (30) days' prior written notice thereof to the other party. If either party terminates this Agreement pursuant to this subsection 4(b), Amedica shall be obligated to continue to pay royalty payments that are earned for Devices resulting from Boden's Development Services as set forth in Section 5 below.

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5. Compensation for Assignment and Sale Proprietary Rights. As full consideration for the Development Services and any valuable assignment of rights in or related to Devices to Amedica pursuant to Section 8 hereof, Amedica shall pay Boden the total of the following:

a. Boden shall, in the form of royalty or similar payments, receive [*****] of the Net After-Tax Profits as separately agreed upon by Boden and Amedica; provided, that this is subject to the provisions of Subsections 5(b) and 5(c) below. "Net After-Tax Profits" is defined as that portion of profits received by Amedica attributable to sale of Devices, after deducting from all gross proceeds from such sales the costs and expenses attributable to the development, testing, marketing and sale of the Devices (but not including any Amedica overhead or expenses unrelated to the Devices), and less all sales, use, occupation or excise taxes and all income taxes applicable to income generated from the Devices.

b. Upon Boden's death, or upon letters from two independent physicians that Boden is permanently disabled and unable to perform the nature of the Development Services hereunder, this Agreement shall terminate as to Boden; provided, that Boden (or Boden's surviving spouse or estate), or Boden's entity, as applicable, shall continue to be entitled to receive the royalties as provided herein.

c. Notwithstanding any provision herein to the contrary, income used for calculating royalties payable to Boden hereunder shall not include any sales attributable to the use of any Devices by any hospital or surgical center where Boden, or any entity controlled by Boden currently practices medicine or contracts for services.

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No provision under this Agreement, either overtly or covertly, directly or indirectly, requires or contemplates that Boden make any recommendations to Boden's patients or health care facilities with respect to Amedica's Devices or other products. There shall be no adjustment to the percentage of royalties, or the rate of any other compensation, if any, resulting from the presence of or absence of, any recommendations of Amedica's Devices or other products to Boden's patients or health care facilities by Boden.

If Boden is paid any share of Net After Tax Profits inconsistent with the provisions of this Subsection 5(c), upon advance written notice to Boden, Amedica will offset such improperly paid amount from any future payment owing to Boden.

d. Amedica shall maintain separate and sufficient accountings and records relating to the Devices to enable the payments payable hereunder to be determined and verified. Boden shall, at all times, have the right, during normal business hours and upon reasonable notice to Amedica, to audit on a confidential basis the relevant books and records of Amedica to verify that the payments due and owing Boden pursuant to subsection 5(a) have been accurately determined. The costs of such audits shall be borne by Boden unless he has been underpaid by [*****]; in such case, costs of the audit shall be paid by Amedica. Payment of any amount determined to be owing to Boden will be made to him in accordance with the provisions of Subsection 4(b) above.

e. Without limiting the provisions of Subsection 4(b), the parties acknowledge that the continued payment of, and the continuing obligation to pay, the royalties payable hereunder is not dependent on the continuing performance of the Development Services, the ongoing Term of this Agreement, or any other contingency or condition.

f. Boden acknowledges that the payment provisions of this Section 5

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represent the sole agreement between the parties with regard to Boden's compensation for all Development Services and any assignment of rights to the Devices; and Amedica shall not be obligated to make, or otherwise be liable for, any additional payment of compensation or reimbursement of expenses with regard to Development Services or the Devices or other similar type payment. It is the parties' intent that this Agreement provide for the "sale or exchange of a capital asset" by Boden to Amedica under Internal Revenue Code Section 1235 entitled "Sale or Exchange of Patents," and that all payments made to Boden hereunder shall be taxed as long-term capital gains. Nothing in this Agreement to the contrary shall imply that the parties intend that the payments to Boden hereunder shall be for anything other than the transfer of all proprietary rights that Boden may have in the Devices. Amedica is making no warranties or representations, however, as to ultimate taxability of the payments to Boden hereunder.

6. Exclusivity. Amedica acknowledges that Boden, and any entities which may currently or in the future be controlled by Boden, have other professional business and investment dealings in addition to his responsibilities under this Agreement and that Boden will not be required to devote his time exclusively to his responsibilities hereunder, either directly or indirectly. Notwithstanding any provision herein to the contrary, Boden agrees that during the Term, as between Boden and Amedica, Amedica shall possess the exclusive ownership of the Devices. Amedica acknowledges that this is a non-exclusive agreement, and nothing herein may be construed to prohibit either Amedica or Boden from entering into similar contractual relationships with other parties, or from engaging or participating in any other venture, unrelated to the Devices. Without limiting the foregoing, Amedica recognizes and acknowledges that Boden (either directly or through his entities) actively performs product development services for and on other parties in the area of orthopedic surgery and related fields; therefore, Boden may

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provide consulting, product development, and other services, not related to the Devices, for and on behalf of persons or entities that may compete with Amedica or that develop, manufacture, or sell products or technologies that are similar in function or design (excluding the Field of Interest) to those developed or sold by Amedica.

7. Confidentiality.

a. Both during the Term and following termination of this Agreement for any reason, except as necessary for the performance of the Development Services hereunder, Boden shall not, at any time or in any manner, directly or indirectly, use, divulge, disclose or communicate to any third-person or entity any information that was disclosed to or developed by Boden during the course of performing the Development Services and which is not (i) information that Boden was aware of prior to the term of this Agreement, (ii) information that Boden becomes aware of through a source other than Amedica, (iii) information that is available to the general public through a prior disclosure, provided that Boden did not commit such prior disclosure in violation of this Agreement, or (iv) the Retained Intellectual Property (as defined herein). Also without limiting the foregoing, Boden may disclose the existence and general nature of this Agreement and the fact that it pertains to the Development Services and the Devices. Subject to the foregoing exceptions, the confidential information described herein shall include information regarding matters affecting or relating to Amedica's business or its Devices; the nature of Amedica's properties or products, whether developed or under development; the identity of Amedica's customers; prices which Amedica obtains or has obtained with respect to its products or services; information as to Amedica's discussions, negotiations and/or dealings with actual or potential third-party buyers, investors, licensees or co-venturers; Amedica's costs, overhead or profit margin; or Amedica's operational methods or its business plans and processes.

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b. Promptly following termination of this Agreement, Boden shall deliver to Amedica any and all property of Amedica which may be in his possession including products, materials, memoranda, notes, records, reports, writings, drawings, diskettes, models and other materials or other documents or photocopies of the same in any tangible form whatsoever constituting confidential or proprietary information of Amedica, and any of the foregoing in intangible form.

8. Covenant Not to Compete.

a. Boden recognizes and acknowledges the competitive and proprietary nature of Amedica's Field of Interest. Boden acknowledges and agrees that a business will be deemed competitive with Amedica if it develops, manufactures or sells any products within the Field of Interest and Boden has participated in the creation, research and/or testing of those such products (such business to be referred to as a "Competitive Business").

b. Boden agrees that during the Term and for an additional [*****] after termination of this Agreement (which period shall be tolled during the period of any violation or breach of any of the provisions of this Section 8 and for a period of [*****] thereafter), Boden shall not:

(i) for his benefit, or on behalf of any other person or entity, directly or indirectly, as principal, agent, stockholder, employee, consultant, representative or in any other capacity, own, manage, operate or control, or be concerned, connected or employed by, or otherwise associate in any manner with, engage in or have a financial interest in any Competitive Business anywhere in the continental United States of America (the "Restricted Territory"), except that nothing contained herein shall preclude

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Boden from purchasing or owning securities of any such business if such securities are publicly traded, and provided that his holdings do not exceed one percent (1%) of the issued and outstanding securities of any class of securities of such business; or

(ii) either individually or on behalf of or through any third party, directly or indirectly, solicit, entice or persuade or attempt to solicit, entice or persuade any other employees of or consultants to Amedica or any present or future parent, subsidiary or affiliate of Amedica to leave the services of Amedica or any such parent, subsidiary or affiliate for any reason.

c. Boden further recognizes and acknowledges that: (i) the restrictions in this Section 8 are reasonable in relation to the skills which represent his principal salable asset both to Amedica and to any prospective employers, and (ii) the geographical scope of the provisions of this Section 8 is reasonable, legitimate and fair to Boden in light of Amedica's need to market its services and sell its products worldwide in order to have a sufficient customer base to make Amedica's business profitable and in light of the limited restrictions on the type of employment prohibited herein compared to the types of employment for which Boden is qualified to earn his livelihood.

d. Notwithstanding anything herein to the contrary, nothing in this Section 8 shall apply with regard to any services performed by Boden prior to the Term hereof (and which services do not involve any activities by Boden within the Field of Interest continuing from and after the date of this Agreement) with regard to any devices, ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials of any kind (the "Prior Work"). Accordingly, nothing herein shall prohibit Boden's receipt of any compensation of any kind (e.g., royalties) in consideration for such Prior Work.

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e. The acknowledgments and agreements set forth in this Section 8 shall survive the termination of Boden's performance of the Development Services for any reason, for the time period set forth herein.

9. Ownership of Ideas, Copyrights and Patents.

a. Boden agrees that he will take reasonable steps to promptly disclose all Devices to Amedica and that he will not publish any Devices, or any information with regard thereto, without the prior written consent of Amedica, which will not be unreasonably withheld.

b. As between Boden and Amedica, Amedica shall have the sole and exclusive right, even as to Boden, to prepare, file, prosecute, obtain and maintain any and all patents and patent applications claiming any Devices. All Devices shall be the sole and exclusive property of Amedica and, subject to payment pursuant to the provisions of Section 3 hereof, and the waivers of any and all representations and warranties concerning the Devices as set forth in Subsection 10(e) below, Boden hereby assigns to Amedica all of his right, title and interest in and to all of the Devices, including the intellectual property therein, which may include trade secrets, inventions, discoveries, or improvements, whether or not registerable or patentable, that are conceived, whether alone or jointly with others, during the Term of this Agreement that are a direct and specific result of the Development Services (collectively, the "Assigned Intellectual Property"). This assignment does not include any such intellectual property that pertains to (i) orthopedic surgical principles in general (including products that may pertain to the same pathological conditions in the same anatomical locations that are relevant to the Devices; to (ii) other products or technologies used in orthopedic surgery; (iii) to proprietary concepts and inventions in which Boden has any right, title, or interest as of the date

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of the execution of this Agreement (collectively “Prior Rights”), or (iv) to any other concept, know-how, discovery, or other intellectual property that is not within the definition of the Assigned Intellectual Property (all of the foregoing collectively, the “Retained Intellectual Property”). Boden shall not be restricted from assigning, licensing, or otherwise utilizing the Retained Intellectual Property in any manner.

c. Boden hereby agrees to reasonably cooperate with Amedica, its attorneys and agents in the preparation and filing of all papers and other documents as may be required to perfect Amedica’s rights in and to any Devices, including, but not limited to, performing all acts reasonably deemed necessary or desirable by Amedica (both during the Term and for a period of [*****] after expiration of this Agreement) and joining in any proceeding to obtain letters patent, copyrights, trademarks or other legal rights of the United States of America and of any and all other countries to Devices; provided, that, Amedica will bear the expense of all such proceedings. Boden hereby agrees that any patent or other legal right covering any Assigned Intellectual Property issued to Boden, shall be assigned by Boden to Amedica without charge.

d. Without limiting the foregoing, Boden further acknowledges that all original works of authorship made by such Boden, within the Field of Interest, by Boden that Boden has first conceived and first reduced to writing, whether alone or jointly with others during the Term of this Agreement that are a direct and specific result of the Development Services and that are protectable by copyright are “works made for hire” within the meaning of the United States Copyright Act, 17 U.S.C. § 101, as amended, the copyright of which shall be owned solely, completely and exclusively by Amedica. If any such work is not considered to be a work made for hire covered by the United States Copyright Act, 17 U.S.C. § 101, as amended, such work shall be owned solely by, or hereby assigned or transferred completely and exclusively to, Amedica. Any and all works of authorship described in this Subsection shall be included within the definition of Assigned Intellectual Property.

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e. Notwithstanding anything herein to the contrary, Boden expressly disclaims, and Amedica expressly waives, any and all representations and warranties in regard to or concerning the Assigned Intellectual Property, the Development Services and the Devices. Without limiting the foregoing, the parties agree that Boden does not represent or warrant that any portion of the Assigned Intellectual Property is valid, enforceable, registerable, or original, that it will be free from claims of infringement, interference, or unlawful use of proprietary information of any third party, or that it does not infringe upon the intellectual property rights of any other party. Furthermore, Boden expressly disclaims, and Amedica expressly waives, the warranties of merchantability and fitness for a particular purpose with regard to the Assigned Intellectual Property, the Development Services and the Devices, and any and all representations and warranties that the Assigned Intellectual Property and the Devices will perform or function in any particular manner, with any particular results, or free from defects.

10. Representations and Warranties Regarding Prior Work and Legal Obligations.

a. Boden hereby represents and warrants that he has no commitments or obligations with any prior employer or any other person or entity that, would restrict his ability to perform the Development Services.

b. Boden represents that he has been advised by Amedica that at no time should he divulge to, or use for the benefit of, Amedica any trade secret or confidential or proprietary information of any previous employer. Boden acknowledges that he has not divulged or used any such information for the benefit of Amedica.

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c. Boden acknowledges that Amedica is basing important business decisions on these representations, and affirms that all of the statements included herein are true.

11. Equitable Remedies. Boden acknowledges that the breach of the provisions of Sections 7, 8, 9 and 10 above shall constitute irreparable damage to Amedica and, accordingly, Amedica may, in addition to all other available remedies under law and equity, obtain injunctive relief upon an alleged violation of such Sections pending resolution on the merits of any claims raised by Amedica hereunder.

12. Stock Option Arrangements. As further consideration hereunder, the parties agree in good faith to negotiate an agreement granting Boden, or Boden's designate, certain rights to obtain options for the purchase of Amedica stock. The nature, amount and terms of such options shall be agreed upon by the parties in good-faith as soon as reasonably possible.

13. Development Agreement Only. This Agreement constitutes a development agreement only. Nothing herein is intended, nor shall it be construed, to create any employer/employee arrangement, partnership arrangement or other relationship between or among the parties except as expressly provided herein; and nothing herein is intended to grant to either party any right or interest in or to the assets, business or interests of the other party, nor the right to bind the other party except as expressly herein provided.

14. Compliance with Laws and Regulations. The parties, at all times, shall interpret and apply the provisions of this Agreement strictly in accordance with all applicable laws and regulations, including, but not limited to all Medicare and Medicaid laws and regulations.

a. If any provision of this Agreement is found, by any applicable court or government agency, to be in conflict with any applicable law or regulation, the provisions of such law or regulation shall govern; and the interpretation and operation under this Agreement shall be modified accordingly.

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b. The parties have no intent through this Agreement or otherwise to solicit, receive, offer, or pay any remuneration in return for recommending the use or utilization of any good or service payable under certain federal health programs, as such is prohibited by the statute at 42 U.S.C. 1320a-7b(b), nor do the parties have any other impermissible intent to violate any similar federal or state law that may apply with regard to any other health care reimbursement program. Boden is under no obligation whatsoever to utilize any products manufactured by Amedica, nor to recommend that such products are utilized by others. If any provision of this Agreement is determined by either party to present a possible violation of any such law, as supported by a written, reasoned opinion of competent legal counsel, the parties shall in good faith negotiate together to amend the terms of this Agreement in a manner that will alleviate any such possible violation while preserving the reasonable business (e.g., compensation) expectations of the parties.

15. Indemnification by Amedica.

a. Amedica will indemnify and hold Boden harmless from any and all claims, costs, judgments and expenses (including reasonable attorneys fees) involving (i) any claim that any Device infringes or interferes with any patent or other proprietary claim of any third-party, and (ii) to the extent claimed or proven to be solely due to Device design or manufacturing defect of whatever sort based on claims of product design or manufacturing defects whether sounding in negligence, strict liability at law, contract or statutory violation, and (iii) any breach by Amedica of any provision of this Agreement.

b. Any indemnification provided by Amedica hereunder shall not apply to

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any claim insofar as that claim (i) relates to a professional medical liability or malpractice claim brought against Boden for professional acts or omissions in connection with the medical care or treatment associated with a Device; (ii) arises from any breach by Boden of any provision of this Agreements; or (iii) arises from any knowing submission by Boden of false data to Amedica or from any other intentional wrongdoing by Boden.

c. Promptly upon Boden's receipt of information concerning the commencement of any third-party claim, demand, action, suit or proceeding (collectively, "Action") which is the subject of indemnification hereunder, Boden shall notify Amedica in writing of the commencement of the Action. Any failure to provide such prompt notice shall relieve Amedica of its indemnification obligations to the extent Amedica has been materially prejudiced by such failure. Amedica may select counsel at its own expense and control the defense of such indemnity claim; and Boden may participate jointly with Amedica in such defense, at Boden's expense, in which event the parties shall reasonably cooperate with each other. Amedica will vigorously defend any such claim, and shall not settle any such claim or refrain from appealing any adverse ruling, judgment, or verdict without the advance written consent of Boden, which consent shall not be unreasonably withheld. With respect to any Action relating solely to the payment of money damages, Amedica shall have the sole right to defend, settle, or otherwise dispose of such claim on such terms as Amedica, in its sole discretion, shall deem appropriate; provided, that Amedica shall provide reasonable evidence of its ability to pay any damages claimed. If the Action involves any claim in which Boden would become subject to injunctive relief or to other equitable relief, or Boden's business would be adversely affected in any manner, Amedica shall settle that claim only upon the written consent of Boden, which shall not be unreasonably withheld.

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16. Indemnification by Boden. Except to the extent that any such claims arise through the wrongful act or neglect of Amedica, Boden will indemnify and hold Amedica harmless from any and all claims, costs, judgments and expenses arising from any breach by Boden of any warranty, representation or affirmative obligation of Boden under this Agreement.

17. General.

a. Notices. All notices required or permitted to be given to a party hereunder shall be mailed by certified mail or registered mail, postage prepaid, to that party's address set forth on the signature page of this Agreement (or to such other address specified in writing).

b. Default. If either party defaults in any of the covenants or provisions herein, the defaulting party shall pay all costs and attorneys' fees incurred by the other party in enforcing its rights arising hereunder. Boden's counsel set forth below shall be provided with a copy of any notice given to Boden hereunder:

c. Governing Law and Venue. This Agreement shall be interpreted, performed and enforced according to the laws of Utah. Venue for any action hereof shall lie with the Third Judicial District Court of the State of Utah for the United States District Court for the District of Utah, Central Division.

d. Unenforceable Provision. If any provision of this Agreement is deemed unenforceable by any court of competent jurisdiction, the remaining provisions shall nonetheless be enforceable according to their terms. Further, if any provision is held to be over broad as written, such provision shall be deemed amended to narrow its application to the extent necessary to make the provision enforceable according to applicable law and shall be enforced as amended.

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e. Assignment. Amedica may assign its rights and obligations hereunder to any person or entity that succeeds to all or substantially all of Amedica's business or that aspect of Amedica's business in which Boden is principally involved. Boden's rights and obligations under this Agreement may not be assigned by Boden without the prior written consent of Amedica except for the right to receive payments pursuant to Section 5 above.

f. Benefit. All statements, representations, warranties, covenants and agreements in this Agreement shall be binding on the parties hereto and shall inure to the benefit of the respective successors and permitted assigns of each party hereto. Nothing in this Agreement shall be construed to create any rights or obligations except between the parties hereto, and no person or entity shall be regarded as a third-party beneficiary of this Agreement, other than any future parent, subsidiary or affiliate of Amedica.

g. Entire Agreement. This Agreement embodies the entire agreement and understanding between and among the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement of any kind not expressly set forth in this Agreement shall affect, or be used to interpret, change or restrict, the express terms and provisions of this Agreement.

h. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended only by written agreement executed by the parties hereto.

i. Waivers and Consents. The terms and provisions of this Agreement may

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be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

j. Construction. The parties have participated equally in the formation of this Agreement and the language of this Agreement will not be presumptively construed against either party.

k. Counterparts. This Agreement may be executed in one or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

l. Section Numbers and Headings. The Section and Subsection headings and numbers used herein are for purposes of convenience and shall not be considered in the interpretation of this Agreement.

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IN WITNESS WHEREOF this 25th day of January, 2006.

ADDRESS:

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

ADDRESS:

Scott D. Boden, M.D.
[*****]
[*****]
[*****]
[*****]
[*****]

AMEDICA

AMEDICA CORP.
A DELAWARE CORPORATION

/s/ Eugene B. Jones

Eugene B. Jones
Vice President, Finance & CFO

BODEN

/s/ Scott D. Boden

Scott D. Boden, M.D.

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SCHEDULE A

Devices

The Devices consist of the following:

1. [*****]

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DEVELOPMENT AGREEMENT

This Development Agreement (this "Agreement") is made and entered into as of the 8th day of August, 2005 (the "Effective Date"), by and between AMEDICA CORP., a Delaware corporation ("Amedica"), and Carl Laurysen, M.D. ("Laurysen").

RECITALS:

A. Amedica is in the business of designing, developing and selling various products and applications for medical and biomedical uses that are made from various materials, including advanced ceramic materials.

B. Amedica desires to continue to encourage, through collaboration among two or more developers ("Collaborators"), the development, testing and clinical training for novel Devices (as defined herein) for implant in or use with the spine in medical and surgical procedures, whether manufactured from ceramic materials or other materials.

C. Laurysen offers clinical knowledge and experience relating to the spine.

D. The parties desire to enter into an agreement to assist in the future development, approval, trial and clinical use of Devices.

E. Laurysen desires the right to assign to an entity controlled by Laurysen the rights and obligations of Laurysen hereunder.

NOW, THEREFORE, for and in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree and represent as follows:

1. Definitions. For purposes of this Agreement, the following terms shall have the following definitions:

a. "Development Services" means the development and related services as requested by Amedica relating to the conceptualization, development, testing, approval and related matters involving the Devices more fully described in Section 2, below.

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b. "Devices" means all ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials, whether or not patentable, including all rights to obtain, perfect or enforce any proprietary interests therein, in the Field of Interest, which Lauryssen, whether alone or in concert with others, may conceive, reduce to practice or develop during the Term (or, if based on or related to any confidential or proprietary information of Amedica, within [*****] after the termination of this Agreement), alone or in conjunction with another, or others, whether during or out of regular business hours, and whether at the request or upon the suggestion of Amedica, or otherwise. These Devices include but are not limited to those items more fully identified on Schedule A attached hereto.

c. "Field of Interest" means the development, testing and commercializing of biomedical or surgical devices, covered by current Amedica patent applications and further Amedica developments, and utilizing ceramic materials, intended for use in diagnosing, preventing or treating diseases or conditions affecting the spine or related structure or tissues or any applications thereof. Amedica may expand or otherwise change the definition of its Field of Interest at any time, as long as this expansion continues to be related solely to ceramic materials, which new definition will be binding upon Lauryssen ten (10) days after written notice to Lauryssen thereof.

d. "Collaborators" refer to the list of professionals more fully identified on Schedule B attached hereto.

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2. Cooperative Development Arrangements. The parties intend that Laurysen, in collaboration and cooperation with the Collaborators shall diligently perform the Development Services which shall include, without limitation, the following

- a. Examining and reviewing the characteristics of the Devices and the nature of the materials with which the Devices are constructed.
- b. Offering experience on ideas and testing pertaining to the Devices, and coordinating with other Amedica personnel and third parties related to such testing, as requested by Amedica.
- c. Providing guidance and assistance in the clinical details of the Devices.
- d. Assisting in the filing of provisional patents and other patents pertaining to the Devices as determined by Amedica.
- e. Assisting in applying for or otherwise seeking regulatory approval for the Devices or surgical processes for their implantation or other use.

3. **Performance by Entity.** Amedica agrees and consents that Laurysen may assign to an entity Laurysen's rights and obligations hereunder, provided that:

- a. The entity shall be under Laurysen's control; and the entity shall provide for the entity's services to be performed by Laurysen, except as otherwise agreed to by Amedica, which consent shall not be unreasonably withheld.
- b. Laurysen shall continue to be personally subject to and bound by the provisions of Sections 8 through 12, inclusive, of this Agreement.

4. **Term and Termination.**

- a. The term (the "Term") of this Agreement shall commence as of the Effective Date and shall continue until the later of: (i) ten (10) years from the date hereof; or (ii) the expiration of the final remaining patent rights on the last of the Devices, unless earlier terminated as provided hereunder.

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b. Either party has the right to terminate this Agreement at any time upon thirty (30) days' prior written notice thereof to the other party. If either party terminates this Agreement pursuant to this subsection 4(b), Amedica shall be obligated to continue to pay royalty payments that are earned for Devices resulting from Lauryssen's Development Services.

c. The parties acknowledge that Amedica has entered into agreements with other Collaborators, listed on Exhibit "B," attached hereto, which agreements contain the same material provisions contained in this Agreement. Those other agreements and this Agreement, which are intended to be performed in cooperation with each other, are referred to herein as the "Collaboration Agreements." Upon the death or termination of a Collaborator other than Lauryssen (or Lauryssen's entity, as applicable) this Agreement shall continue (subject to Subsection 4(b) above) as to Lauryssen and all remaining Collaborator(s); provided, that Lauryssen agrees, as soon as reasonably possible, to negotiate in good faith with the remaining Collaborators any modifications to Lauryssen's duties and compensation as may be appropriate under the circumstances.

5. Compensation for Assignment and Sale Proprietary Rights. As full consideration for the Development Services and any valuable assignment of rights in or related to Devices to Amedica pursuant to Section 9 hereof, Amedica shall pay Lauryssen the total of the following:

a. Lauryssen shall, in the form of royalty or similar payments, receive the total of up to [*****] of the Net After-Tax Profits as separately agreed upon

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by Laurysen and Amedica; provided, that this is subject to the provisions of Subsections 5(c) and 5(d) below. “Net After-Tax Profits” is defined as that portion of profits received by Amedica attributable to sale of Devices, after deducting from all gross proceeds from such sales the costs and expenses attributable to the development, testing, marketing and sale of the Devices (but not including any Amedica overhead or expenses unrelated to the Devices), and less all sales, use, occupation or excise taxes and all income taxes applicable to income generated from the Devices.

b. Laurysen’s respective share of the Net After-Tax Profits may be modified by Laurysen and Amedica, in good faith, based upon Laurysen’s contribution to the final form of the Devices, relative to the contributions of Amedica, other Collaborators and any third parties. Such share shall be calculated on a monthly basis, with payment to Laurysen of each monthly amount no later than the last day of the following month.

c. Upon Laurysen’s death, or upon letters from two independent physicians that Laurysen is permanently disabled and unable to perform the nature of the Development Services hereunder, this Agreement shall terminate as to Laurysen; provided, that Laurysen (or Laurysen’s surviving spouse or estate), or Laurysen’s entity, as applicable, shall continue to be entitled to receive the royalties as provided herein.

d. Notwithstanding any provision herein to the contrary, income used for calculating royalties payable to Laurysen hereunder shall not include any sales attributable to the use of any Devices by any hospital or surgical center where Laurysen, or any entity controlled by Laurysen, currently practices medicine or contracts for services.

No provision under this Agreement, either overtly or covertly, directly or indirectly, requires or contemplates that Laurysen make any recommendations to Laurysen's patients or health care facilities with respect to Amedica's Devices or other products. There shall be no adjustment to the percentage of royalties, or the rate of any other compensation, if any, resulting from the presence of or absence of, any recommendations of Amedica's Devices or other products to Laurysen's patients or health care facilities by Laurysen.

If Laurysen is paid any share of Net After Tax Profits inconsistent with the provisions of this Subsection 5(d), upon advance written notice to Laurysen, Amedica will offset such improperly paid amount from any future payment owing to Laurysen.

e. Amedica shall maintain separate and sufficient accountings and records relating to the Devices to enable the payments payable hereunder to be determined and verified. Laurysen shall, at all times, have reasonable access to examine Amedica's books and records relating to the Devices. The parties shall promptly reconcile any payment discrepancies discovered through any such audit.

f. Without limiting the provisions of Subsection 5(c), the parties acknowledge that the continued payment of, and the continuing obligation to pay, the royalties payable hereunder is not dependent on the continuing performance of the Development Services, the ongoing Term of this Agreement, or any other contingency or condition.

g. Laurysen acknowledges that the payment provisions of this Section 4 represent the sole agreement between the parties with regard to Laurysen's compensation for all Development Services and any assignment of rights to the Devices; and Amedica shall not be obligated to make, or otherwise be liable for, any additional

payment of compensation or reimbursement of expenses with regard to Development Services or the Devices or other similar type payment. It is the parties' intent that this Agreement provide for the "sale or exchange of a capital asset" by Laurysen to Amedica under Internal Revenue Code Section 1235 entitled "Sale or Exchange of Patents," and that all payments made to Laurysen hereunder shall be taxed as long-term capital gains. Nothing in this Agreement to the contrary shall imply that the parties intend that the payments to Laurysen hereunder shall be for anything other than the transfer of all proprietary rights that Laurysen may have in the Devices. Amedica is making no warranties or representations, however, as to ultimate taxability of the payments to Laurysen hereunder.

6. Facilities. To the extent necessary, Amedica shall provide Laurysen with office space, equipment, telephone, secretarial help and all other equipment and related services necessary for the performance of the Development Services hereunder.

7. Exclusivity. Amedica acknowledges that Laurysen, and any entities which may currently or in the future be controlled by Laurysen, have other professional business and investment dealings in addition to his responsibilities under this Agreement and that Laurysen will not be required to devote his time exclusively to his responsibilities hereunder, either directly or indirectly. Notwithstanding any provision herein to the contrary, Laurysen agrees that during the Term, as between Laurysen and Amedica, Amedica shall possess the exclusive ownership of the Devices. Amedica acknowledges that this is a non-exclusive agreement, and nothing herein may be construed to prohibit either Amedica or Laurysen from entering into similar contractual relationships with other parties, or from engaging or participating in any other venture, unrelated to the Devices. Without limiting the foregoing, Amedica recognizes and

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acknowledges that Laurysen (either directly or through his entities) actively performs consulting and product development services for and on other parties in the area of neurosurgery and related fields; therefore, Laurysen may provide consulting, product development, and other services, not related to the Devices, for and on behalf of persons or entities that may compete with Amedica or that develop, manufacture, or sell products or technologies that are similar in function or design (excluding the Field of Interest, which involves solely ceramic materials) to those developed or sold by Amedica.

8. Confidentiality.

a. Both during the Term and following termination of this Agreement for any reason, except as necessary for the performance of the Development Services hereunder, Laurysen shall not, at any time or in any manner, directly or indirectly, use, divulge, disclose or communicate to any third-person or entity any information that was disclosed to or developed by Laurysen during the course of performing the Development Services and which is not (i) information that Laurysen was aware of prior to the term of this Agreement, (ii) information that Laurysen becomes aware of through a source other than Amedica, (iii) information that is available to the general public through a prior disclosure, provided that Laurysen did not commit such prior disclosure in violation of this Agreement, or (iv) the Retained Intellectual Property (as defined herein). Also without limiting the foregoing, Laurysen may disclose the existence and general nature of this Agreement and the fact that it pertains to the Development Services and the Devices. Subject to the foregoing exceptions, the confidential information described herein shall include information regarding matters affecting or relating to Amedica's business or its Devices; the nature of Amedica's properties or products, whether

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developed or under development; the identity of Amedica's customers; prices which Amedica obtains or has obtained with respect to its products or services; information as to Amedica's discussions, negotiations and/or dealings with actual or potential third-party buyers, investors, licensees or co-venturers; Amedica's costs, overhead or profit margin; or Amedica's operational methods or its business plans and processes.

b. Promptly following termination of this Agreement, Laurysen shall deliver to Amedica any and all property of Amedica which may be in his possession including products, materials, memoranda, notes, records, reports, writings, drawings, diskettes, models and other materials or other documents or photocopies of the same in any tangible form whatsoever constituting confidential or proprietary information of Amedica, and any of the foregoing in intangible form.

9. Covenant Not to Compete.

a. Laurysen recognizes and acknowledges the competitive and proprietary nature of Amedica's Field of Interest. Laurysen acknowledges and agrees that a business will be deemed competitive with Amedica if it develops, manufactures or sells any ceramic products within the Field of Interest and Laurysen has participated in the creation, research and/or testing of those such ceramic products (such business to be referred to as a "Competitive Business").

b. Laurysen agrees that during the Term and for an additional [*****] after termination of this Agreement (which period shall be tolled during the period of any violation or breach of any of the provisions hereof and for a period of [*****] thereafter), whether such termination is voluntary or involuntary, Laurysen shall not:

(i) for his benefit, or on behalf of any other person or entity, directly or indirectly, as principal, agent, stockholder, employee, consultant, representative or in any other capacity, own, manage, operate or control, or be concerned, connected or employed by, or otherwise associate in any manner with, engage in or have a financial interest in any Competitive Business anywhere in the continental United States of America (the "Restricted Territory"), except that nothing contained herein shall preclude Laurysen from purchasing or owning securities of any such business if such securities are publicly traded, and provided that his holdings do not exceed one percent (1%) of the issued and outstanding securities of any class of securities of such business; or

(ii) either individually or on behalf of or through any third party, directly or indirectly, solicit, entice or persuade or attempt to solicit, entice or persuade any other employees of or consultants to Amedica or any present or future parent, subsidiary or affiliate of Amedica to leave the services of Amedica or any such parent, subsidiary or affiliate for any reason.

c. Laurysen further recognizes and acknowledges that: (i) the restrictions in this Section 9 are reasonable in relation to the skills which represent his principal salable asset both to Amedica and to any prospective employers, and (ii) the geographical scope of the provisions of this Section 9 is reasonable, legitimate and fair to Laurysen in light of Amedica's need to market its services and sell its products worldwide in order to have a sufficient customer base to make Amedica's business profitable and in light of the limited restrictions on the type of employment prohibited herein compared to the types of employment for which Laurysen is qualified to earn his livelihood.

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d. Notwithstanding anything herein to the contrary, nothing in this Section 9 shall apply with regard to any services performed by Laurysen prior to the Term hereof (and which services do not involve any activities by Laurysen within the Field of Interest continuing from and after the date of this Agreement) with regard to any devices, ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials of any kind (the "Prior Work"). Accordingly, nothing herein shall prohibit Laurysen's receipt of any compensation of any kind (e.g., royalties) in consideration for such Prior Work.

e. The acknowledgments and agreements set forth in this Section 9 shall survive the termination of Laurysen's performance of the Development Services for any reason, for the time period set forth herein.

10. Ownership of Ideas, Copyrights and Patents.

a. Laurysen agrees that he will take reasonable steps to promptly disclose all Devices to Amedica and that he will not publish any Devices, or any information with regard thereto, without the prior written consent of Amedica, which will not be unreasonably withheld.

b. As between Laurysen and Amedica, Amedica shall have the sole and exclusive right, even as to Laurysen, to prepare, file, prosecute, obtain and maintain any and all patents and patent applications claiming any Devices. All Devices shall be the sole and exclusive property of Amedica and, subject to payment pursuant to the provisions of Section 3 hereof, and the waivers of any and all representations and warranties concerning the Devices as set forth in Subsection 10(e) below, Laurysen hereby assigns to Amedica all of his right, title and interest in and to all of the Devices,

including the intellectual property therein, which may include trade secrets, inventions, discoveries, or improvements, whether or not registerable or patentable, that are conceived, whether alone or jointly with others, during the Term of this Agreement that are a direct and specific result of the Development Services (collectively, the "Assigned Intellectual Property"). This assignment does not include any such intellectual property that pertains to: (i) neurosurgical principles in general (including products that may pertain to the same pathological conditions in the same anatomical locations that are relevant to the Devices; to (ii) other products or technologies used in neurosurgery; (iii) to proprietary concepts and inventions in which Laurysen has any right, title, or interest as of the date of the execution of this Agreement (collectively "Prior Rights"), or (iv) to any other concept, know-how, discovery, or other intellectual property that is not within the definition of the Assigned Intellectual Property (all of the foregoing collectively, the "Retained Intellectual Property"). Laurysen shall not be restricted from assigning, licensing, or otherwise utilizing the Retained Intellectual Property in any manner.

c. Laurysen hereby agrees to reasonably cooperate with Amedica, its attorneys and agents in the preparation and filing of all papers and other documents as may be required to perfect Amedica's rights in and to any Devices, including, but not limited to, performing all acts reasonably deemed necessary or desirable by Amedica (both during the Term and for a period of [*****] after expiration of this Agreement) and joining in any proceeding to obtain letters patent, copyrights, trademarks or other legal rights of the United States of America and of any and all other countries to Devices; provided, that, Amedica will bear the expense of all such proceedings. Laurysen hereby agrees that any patent or other legal right covering any Assigned Intellectual Property issued to Laurysen, shall be assigned by Laurysen to Amedica without charge.

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d. Without limiting the foregoing, Laurysen further acknowledges that all original works of authorship made by such Laurysen, within the Field of Interest, by Laurysen that Laurysen has first conceived and first reduced to writing, whether alone or jointly with others during the Term of this Agreement that are a direct and specific result of the Development Services and that are protectable by copyright are “works made for hire” within the meaning of the United States Copyright Act, 17 U.S.C. § 101, as amended, the copyright of which shall be owned solely, completely and exclusively by Amedica. If any such work is not considered to be a work made for hire covered by the United States Copyright Act, 17 U.S.C. § 101, as amended, such work shall be owned solely by, or hereby assigned or transferred completely and exclusively to, Amedica. Any and all works of authorship described in this Subsection shall be included within the definition of Assigned Intellectual Property.

e. Notwithstanding anything herein to the contrary, Laurysen expressly disclaims, and Amedica expressly waives, any and all representations and warranties in regard to or concerning the Assigned Intellectual Property, the Development Services and the Devices. Without limiting the foregoing, the parties agree that Laurysen does not represent or warrant that any portion of the Assigned Intellectual Property is valid, enforceable, registerable, or original, that it will be free from claims of infringement, interference, or unlawful use of proprietary information of any third party, or that it does not infringe upon the intellectual property rights of any other party. Furthermore, Laurysen expressly disclaims, and Amedica expressly waives, the warranties of

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merchantability and fitness for a particular purpose with regard to the Assigned Intellectual Property, the Development Services and the Devices, and any and all representations and warranties that the Assigned Intellectual Property and the Devices will perform or function in any particular manner, with any particular results, or free from defects.

11. Representations and Warranties Regarding Prior Work and Legal Obligations.

a. Laurysen hereby represents and warrants that he has no commitments or obligations with any prior employer or any other person or entity that, would restrict his ability to perform the Development Services.

b. Laurysen represents that he has been advised by Amedica that at no time should he divulge to, or use for the benefit of, Amedica any trade secret or confidential or proprietary information of any previous employer. Laurysen acknowledges that he has not divulged or used any such information for the benefit of Amedica.

c. Laurysen acknowledges that Amedica is basing important business decisions on these representations, and affirms that all of the statements included herein are true.

12. Equitable Remedies. Laurysen acknowledges that the breach of the provisions of Sections 8, 9, 10 and 11 above shall constitute irreparable damage to Amedica and, accordingly, Amedica may, in addition to all other available remedies under law and equity, obtain injunctive relief upon an alleged violation of such Sections pending resolution on the merits of any claims raised by Amedica hereunder.

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13. Stock Option Arrangements. As further consideration hereunder, the parties agree in good faith to negotiate an agreement granting Laurysen, or Laurysen's designate, certain rights to obtain options for the purchase of Amedica stock. The nature, amount and terms of such options shall be agreed upon by the parties in good-faith as soon as reasonably possible.

14. Development Agreement Only. This Agreement constitutes a development agreement only. Nothing herein is intended, nor shall it be construed, to create any employer/ employee arrangement, partnership arrangement or other relationship between or among the parties except as expressly provided herein; and nothing herein is intended to grant to either party any right or interest in or to the assets, business or interests of the other party, nor the right to bind the other party except as expressly herein provided.

15. Compliance with Laws and Regulations. The parties, at all times, shall interpret and apply the provisions of this Agreement strictly in accordance with all applicable laws and regulations, including, but not limited to all Medicare and Medicaid laws and regulations.

If any provision of this Agreement is found, by any applicable court or government agency, to be in conflict with any applicable law or regulation, the provisions of such law or regulation shall govern; and the interpretation and operation under this Agreement shall be modified accordingly.

The parties have no intent through this Agreement or otherwise to solicit, receive, offer, or pay any remuneration in return for recommending the use or utilization of any good or service payable under certain federal health programs, as such is prohibited by the statute at 42 U.S.C. 1320a-7b(b), nor do the parties have any other impermissible intent to violate any similar federal or state law that may apply with regard to any other health care reimbursement program.

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Laurysen is under no obligation whatsoever to utilize any products manufactured by Amedica, nor to recommend that such products are utilized by others. If any provision of this Agreement is determined by either party to present a possible violation of any such law, as supported by a written, reasoned opinion of competent legal counsel, the parties shall in good faith negotiate together to amend the terms of this Agreement in a manner that will alleviate any such possible violation while preserving the reasonable business (e.g., compensation) expectations of the parties.

16. Indemnification by Amedica.

a. Amedica will indemnify and hold Laurysen harmless from any and all claims, costs, judgments and expenses involving (i) any claim that any Device infringes or interferes with any patent or other proprietary claim of any third-party, and (ii) to the extent claimed or proven to be solely due to Device design or manufacturing defect (including reasonable attorneys' fees) of whatever sort based on claims of product design or manufacturing defects whether sounding in negligence, strict liability at law, contract or statutory violation, and (iii) any breach by Amedica of any provision of this Agreement.

b. Any indemnification provided by Amedica hereunder shall not apply to any claim insofar as that claim (i) relates to a professional medical liability or malpractice claim brought against Laurysen for professional acts or omissions in connection with the medical care or treatment associated with a Device; (ii) arises from any breach by Laurysen of any provision of this Agreement; or (iii) arises from any knowing submission by Laurysen of false data to Amedica or from any other intentional wrongdoing by Laurysen.

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c. Promptly upon Laurysen's receipt of information concerning the commencement of any third-party claim, demand, action, suit or proceeding (collectively, "Action") which is the subject of indemnification hereunder, Laurysen shall notify Amedica in writing of the commencement of the Action. Any failure to provide such prompt notice shall relieve Amedica of its indemnification obligations to the extent Amedica has been materially prejudiced by such failure. Amedica may select counsel at its own expense and control the defense of such indemnity claim; and Laurysen may participate jointly with Amedica in such defense, at Laurysen's expense, in which event the parties shall reasonably cooperate with each other. Amedica will vigorously defend any such claim, and shall not settle any such claim or refrain from appealing any adverse ruling, judgment, or verdict without the advance written consent of Laurysen, which consent shall not be unreasonably withheld. With respect to any Action relating solely to the payment of money damages, Amedica shall have the sole right to defend, settle, or otherwise dispose of such claim on such terms as Amedica, in its sole discretion, shall deem appropriate; provided, that Amedica shall provide reasonable evidence of its ability to pay any damages claimed. If the Action involves any claim in which Laurysen would become subject to injunctive relief or to other equitable relief, or Laurysen's business would be adversely affected in any manner, Amedica shall settle that claim only upon the written consent of Laurysen, which shall not be unreasonably withheld.

17. Indemnification by Laurysen. Except to the extent that any such claims arise through the wrongful act or neglect of Amedica, Laurysen will indemnify and hold Amedica harmless from any and all claims, costs, judgments and expenses arising from any breach by Laurysen of any warranty, representation or affirmative obligation of Laurysen under this Agreement.

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18. General.

a. Notices. All notices required or permitted to be given to a party hereunder shall be mailed by certified mail or registered mail, postage prepaid, to that party's address set forth on the signature page of this Agreement (or to such other address specified in writing).

b. Default. If either party defaults in any of the covenants or provisions herein, the defaulting party shall pay all costs and attorneys' fees incurred by the other party in enforcing its rights arising hereunder. Lauryssen's counsel set forth below shall be provided with a copy of any notice given to Lauryssen hereunder:

Thad N. Leach
Lewis, Rice & Fingersh, L.C.
500 N. Broadway, Suite 2000
St. Lewis, Missouri 63102

c. Governing Law and Venue. This Agreement shall be interpreted, performed and enforced according to the laws of Utah. Venue for any action hereof shall lie with the Third Judicial District Court of the State of Utah for the United States District Court for the District of Utah, Central Division.

d. Unenforceable Provision. If any provision of this Agreement is deemed unenforceable by any court of competent jurisdiction, the remaining provisions shall nonetheless be enforceable according to their terms. Further, if any provision is held to be over broad as written, such provision shall be deemed amended to narrow its application to the extent necessary to make the provision enforceable according to applicable law and shall be enforced as amended.

e. Assignment. Amedica may assign its rights and obligations hereunder to any person or entity that succeeds to all or substantially all of Amedica's business or that aspect of Amedica's business in which Laurysen is principally involved. Laurysen's rights and obligations under this Agreement may not be assigned by that Laurysen without the prior written consent of Amedica.

f. Benefit. All statements, representations, warranties, covenants and agreements in this Agreement shall be binding on the parties hereto and shall inure to the benefit of the respective successors and permitted assigns of each party hereto. Nothing in this Agreement shall be construed to create any rights or obligations except between the parties hereto, and no person or entity shall be regarded as a third-party beneficiary of this Agreement, other than any future parent, subsidiary or affiliate of Amedica.

g. Entire Agreement. This Agreement embodies the entire agreement and understanding between and among the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement of any kind not expressly set forth in this Agreement shall affect, or be used to interpret, change or restrict, the express terms and provisions of this Agreement.

h. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended only by written agreement executed by the parties hereto.

i. Waivers and Consents. The terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver

or consent shall be deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

j. Construction. The parties have participated equally in the formation of this Agreement and the language of this Agreement will not be presumptively construed against either party.

k. Counterparts. This Agreement may be executed in one or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

l. Section Numbers and Headings. The Section and Subsection headings and numbers used herein are for purposes of convenience and shall not be considered in the interpretation of this Agreement.

IN WITNESS WHEREOF this 17th day of August, 2005.

ADDRESS:

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

AMEDICA

AMEDICA CORP.
A DELAWARE CORPORATION

By /s/ Ashok Khandkar
Its: President and CEO

LAURYSSSEN

ADDRESS:

Carl Lauryssen, M.D.
[*****]
[*****]

/s/ Carl Lauryssen, M.D.
CARL LAURYSSSEN, M.D.

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SCHEDULE A

Devices

The Devices consist of the following:

1. [*****]
2. [*****]

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SCHEDULE B

List of Collaborators

- [1] [*****]
- [2] [*****]
- [3] [*****], and
- [4] [*****]

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DEVELOPMENT AGREEMENT

This Development Agreement (this "Agreement") is made and entered into as of the 8th day of September, 2005 (the "Effective Date"), by and between AMEDICA CORP., a Delaware corporation ("Amedica"), and Alan S. Hilibrand, M.D. ("Hilibrand").

RECITALS:

A. Amedica is in the business of designing, developing and selling various products and applications for medical and biomedical uses that are made from various materials, including advanced ceramic materials.

B. Amedica desires to continue to encourage, through collaboration among two or more developers ("Collaborators"), the development, testing and clinical training for novel Devices (as defined herein) for implant in or use with the spine in medical and surgical procedures, whether manufactured from ceramic materials or other materials.

C. Hilibrand offers clinical knowledge and experience relating to the spine.

D. The parties desire to enter into an agreement to assist in the future development, approval, trial and clinical use of Devices.

NOW, THEREFORE, for and in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree and represent as follows:

1. Definitions. For purposes of this Agreement, the following terms shall have the following definitions:

a. "Development Services" means the development and related services as requested by Amedica relating to the conceptualization, development, testing, approval and related matters involving the Devices more fully described in Section 2, below.

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b. "Devices" means all ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials, whether or not patentable, including all rights to obtain, perfect or enforce any proprietary interests therein, in the Field of Interest, which Hilibrand, whether alone or in concert with others, may conceive, reduce to practice or develop during the Term (or, if based on or related to any confidential or proprietary information of Amedica, within [*****] after the termination of this Agreement), alone or in conjunction with another, or others, whether during or out of regular business hours, and whether at the request or upon the suggestion of Amedica, or otherwise. These Devices include but are not limited to those items more fully identified on Schedule A attached hereto.

c. "Field of Interest" means the development, testing and commercializing of biomedical or surgical devices, covered by current Amedica patent applications and further Amedica developments, and utilizing ceramic materials, intended for use in diagnosing, preventing or treating diseases or conditions affecting the spine or related structure or tissues or any applications thereof. Amedica may expand or otherwise change the definition of its Field of Interest at any time, as long as this expansion continues to be related solely to ceramic materials, which new definition will be binding upon Hilibrand ten (10) days after written notice to Hilibrand thereof.

d. "Collaborators" refer to the list of professionals more fully identified on Schedule B attached hereto.

2. Cooperative Development Arrangements. The parties intend that Hilibrand, in collaboration and cooperation with the Collaborators shall diligently perform the Development Services which shall include, without limitation, the following

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-
- a. Examining and reviewing the characteristics of the Devices and the nature of the materials with which the Devices are constructed.
 - b. Offering experience on ideas and testing pertaining to the Devices, and coordinating with other Amedica personnel and third parties related to such testing, as requested by Amedica.
 - c. Providing guidance and assistance in the clinical details of the Devices.
 - d. Assisting in the filing of provisional patents and other patents pertaining to the Devices as determined by Amedica.
 - e. Assisting in applying for or otherwise seeking regulatory approval for the Devices or surgical processes for their implantation or other use.

3. Term and Termination.

- a. The term (the "Term") of this Agreement shall commence as of the Effective Date and shall continue until the later of: (i) ten (10) years from the date hereof; or (ii) the expiration of the final remaining patent rights on the last of the Devices, unless earlier terminated as provided hereunder.
- b. Either party has the right to terminate this Agreement at any time upon thirty (30) days' prior written notice thereof to the other party. If either party terminates this Agreement pursuant to this subsection 4(b), Amedica shall be obligated to continue to pay royalty payments that are earned for Devices resulting from Hilibrand's Development Services.
- c. The parties acknowledge that Amedica has entered into agreements with other Collaborators, listed on Exhibit "B," attached hereto, which agreements contain the same material provisions contained in this Agreement. Those other agreements and this

Agreement, which are intended to be performed in cooperation with each other, are referred to herein as the "Collaboration Agreements." Upon the death or termination of a Collaborator other than Hilibrand (or Hilibrand's entity, as applicable) this Agreement shall continue (subject to Subsection 4(b) above) as to Hilibrand and all remaining Collaborator(s); provided, that Hilibrand agrees, as soon as reasonably possible, to negotiate in good faith with the remaining Collaborators any modifications to Hilibrand's duties and compensation as may be appropriate under the circumstances.

4. Compensation for Assignment and Sale Proprietary Rights. As full consideration for the Development Services and any valuable assignment of rights in or related to Devices to Amedica pursuant to Section 9 hereof, Amedica shall pay Hilibrand the total of the following:

a. Hilibrand shall, in the form of royalty or similar payments, receive the total of up to [*****] of the Net After-Tax Profits as separately agreed upon by Hilibrand and Amedica; provided, that this is subject to the provisions of Subsections 4(c) and 4(d) below. "Net After-Tax Profits" is defined as that portion of profits received by Amedica attributable to sale of Devices, after deducting from all gross proceeds from such sales the costs and expenses attributable to the development, testing, marketing and sale of the Devices (but not including any Amedica overhead or expenses unrelated to the Devices), and less all sales, use, occupation or excise taxes and all income taxes applicable to income generated from the Devices.

b. Hilibrand's respective share of the Net After-Tax Profits may be modified by Hilibrand and Amedica, in good faith, based upon Hilibrand's contribution to the final form of the Devices, relative to the contributions of Amedica, other Collaborators and any third parties. Such share shall be calculated on a monthly basis, with payment to Hilibrand of each monthly amount no later than the last day of the following month.

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c. Upon Hilibrand's death, or upon letters from two independent physicians that Hilibrand is permanently disabled and unable to perform the nature of the Development Services hereunder, this Agreement shall terminate as to Hilibrand; provided, that Hilibrand (or Hilibrand's surviving spouse or estate), or Hilibrand's entity, as applicable, shall continue to be entitled to receive the royalties as provided herein.

d. Notwithstanding any provision herein to the contrary, income used for calculating royalties payable to Hilibrand hereunder shall not include any sales attributable to the use of any Devices by any hospital or surgical center where Hilibrand, or any entity controlled by Hilibrand currently practices medicine or contracts for services.

No provision under this Agreement, either overtly or covertly, directly or indirectly, requires or contemplates that Hilibrand make any recommendations to Hilibrand's patients or health care facilities with respect to Amedica's Devices or other products. There shall be no adjustment to the percentage of royalties, or the rate of any other compensation, if any, resulting from the presence of or absence of, any recommendations of Amedica's Devices or other products to Hilibrand's patients or health care facilities by Hilibrand.

If Hilibrand is paid any share of Net After Tax Profits inconsistent with the provisions of this Subsection 4(d), upon advance written notice to Hilibrand, Amedica will offset such improperly paid amount from any future payment owing to Hilibrand.

e. Amedica shall maintain separate and sufficient accountings and records relating to the Devices to enable the payments payable hereunder to be determined and

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verified. Hilibrand shall, at all times, have reasonable access to examine Amedica's books and records relating to the Devices. The parties shall promptly reconcile any payment discrepancies discovered through any such audit.

f. Without limiting the provisions of Subsection 4(c), the parties acknowledge that the continued payment of, and the continuing obligation to pay, the royalties payable hereunder is not dependent on the continuing performance of the Development Services, the ongoing Term of this Agreement, or any other contingency or condition, except as expressly provided to the contrary in Subsection 4(b).

g. Hilibrand acknowledges that the payment provisions of this Section 4 represent the sole agreement between the parties with regard to Hilibrand's compensation for all Development Services and any assignment of rights to the Devices; and Amedica shall not be obligated to make, or otherwise be liable for, any additional payment of compensation or reimbursement of expenses with regard to Development Services or the Devices or other similar type payment. It is the parties' intent that this Agreement provide for the "sale or exchange of a capital asset" by Hilibrand to Amedica under Internal Revenue Code Section 1235 entitled "Sale or Exchange of Patents," and that all payments made to Hilibrand hereunder shall be taxed as long-term capital gains. Nothing in this Agreement to the contrary shall imply that the parties intend that the payments to Hilibrand hereunder shall be for anything other than the transfer of all proprietary rights that Hilibrand may have in the Devices. Amedica is making no warranties or representations, however, as to ultimate taxability of the payments to Hilibrand hereunder.

5. Facilities. To the extent necessary, Amedica shall provide Hilibrand with office space, equipment, telephone, secretarial help and all other equipment and related services necessary for the performance of the Development Services hereunder.

6. Exclusivity. Amedica acknowledges that Hilibrand, and any entities which may currently or in the future be controlled by Hilibrand, have other professional business and investment dealings in addition to his responsibilities under this Agreement and that Hilibrand will not be required to devote his time exclusively to his responsibilities hereunder, either directly or indirectly. Notwithstanding any provision herein to the contrary, Hilibrand agrees that during the Term, as between Hilibrand and Amedica, Amedica shall possess the exclusive ownership of the Devices. Amedica acknowledges that this is a non-exclusive agreement, and nothing herein may be construed to prohibit either Amedica or Hilibrand from entering into similar contractual relationships with other parties, or from engaging or participating in any other venture, unrelated to the Devices. Without limiting the foregoing, Amedica recognizes and acknowledges that Hilibrand (either directly or through his entities) actively performs consulting and product development services for and on other parties in the area of neurosurgery and related fields; therefore, Hilibrand may provide consulting, product development, and other services, not related to the Devices, for and on behalf of persons or entities that may compete with Amedica or that develop, manufacture, or sell products or technologies that are similar in function or design (excluding the Field of Interest, which involves solely ceramic materials) to those developed or sold by Amedica.

7. Confidentiality.

a. Both during the Term and following termination of this Agreement for any reason, except as necessary for the performance of the Development Services hereunder,

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Hilibrand shall not, at any time or in any manner, directly or indirectly, use, divulge, disclose or communicate to any third-person or entity any information that was disclosed to or developed by Hilibrand during the course of performing the Development Services and which is not (i) information that Hilibrand was aware of prior to the term of this Agreement, (ii) information that Hilibrand becomes aware of through a source other than Amedica, (iii) information that is available to the general public through a prior disclosure, provided that Hilibrand did not commit such prior disclosure in violation of this Agreement, or (iv) the Retained Intellectual Property (as defined herein). Also without limiting the foregoing, Hilibrand may disclose the existence and general nature of this Agreement and the fact that it pertains to the Development Services and the Devices. Subject to the foregoing exceptions, the confidential information described herein shall include information regarding matters affecting or relating to Amedica's business or its Devices; the nature of Amedica's properties or products, whether developed or under development; the identity of Amedica's customers; prices which Amedica obtains or has obtained with respect to its products or services; information as to Amedica's discussions, negotiations and/or dealings with actual or potential third-party buyers, investors, licensees or co-venturers; Amedica's costs, overhead or profit margin; or Amedica's operational methods or its business plans and processes.

b. Promptly following termination of this Agreement, Hilibrand shall deliver to Amedica any and all property of Amedica which may be in his possession including products, materials, memoranda, notes, records, reports, writings, drawings, diskettes, models and other materials or other documents or photocopies of the same in any tangible form whatsoever constituting confidential or proprietary information of Amedica, and any of the foregoing in intangible form.

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8. Covenant Not to Compete.

a. Hilibrand recognizes and acknowledges the competitive and proprietary nature of Amedica's Field of Interest. Hilibrand acknowledges and agrees that a business will be deemed competitive with Amedica if it develops, manufactures or sells any ceramic products within the Field of Interest and Hilibrand has participated in the creation, research and/or testing of those such ceramic products (such business to be referred to as a "Competitive Business").

b. Hilibrand agrees that during the Term and for an additional [*****] after termination of this Agreement (which period shall be tolled during the period of any violation or breach of any of the provisions hereof and for a period of [*****] thereafter), whether such termination is voluntary or involuntary, Hilibrand shall not:

(i) for his benefit, or on behalf of any other person or entity, directly or indirectly, as principal, agent, stockholder, employee, consultant, representative or in any other capacity, own, manage, operate or control, or be concerned, connected or employed by, or otherwise associate in any manner with, engage in or have a financial interest in any Competitive Business anywhere in the continental United States of America (the "Restricted Territory"), except that nothing contained herein shall preclude Hilibrand from purchasing or owning securities of any such business if such securities are publicly traded, and provided that his holdings do not exceed one percent (1%) of the issued and outstanding securities of any class of securities of such business; or

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(ii) either individually or on behalf of or through any third party, directly or indirectly, solicit, entice or persuade or attempt to solicit, entice or persuade any other employees of or consultants to Amedica or any present or future parent, subsidiary or affiliate of Amedica to leave the services of Amedica or any such parent, subsidiary or affiliate for any reason.

c. Hilibrand further recognizes and acknowledges that: (i) the restrictions in this Section 8 are reasonable in relation to the skills which represent his principal salable asset both to Amedica and to any prospective employers, and (ii) the geographical scope of the provisions of this Section 8 is reasonable, legitimate and fair to Hilibrand in light of Amedica's need to market its services and sell its products worldwide in order to have a sufficient customer base to make Amedica's business profitable and in light of the limited restrictions on the type of employment prohibited herein compared to the types of employment for which Hilibrand is qualified to earn his livelihood.

d. The acknowledgments and agreements set forth in this Section 8 shall survive the termination of Hilibrand's performance of the Development Services for any reason, for the time period set forth herein.

9. Ownership of Ideas, Copyrights and Patents.

a. Hilibrand agrees that he will take reasonable steps to promptly disclose all Devices to Amedica and that he will not publish any Devices, or any information with regard thereto, without the prior written consent of Amedica, which will not be unreasonably withheld.

b. As between Hilibrand and Amedica, Amedica shall have the sole and exclusive right, even as to Hilibrand, to prepare, file, prosecute, obtain and maintain any

and all patents and patent applications claiming any Devices. All Devices shall be the sole and exclusive property of Amedica and, subject to payment pursuant to the provisions of Section 3 hereof, and the waivers of any and all representations and warranties concerning the Devices as set forth in Subsection 9(e) below, Hilibrand hereby assigns to Amedica all of his right, title and interest in and to all of the Devices, including the intellectual property therein, which may include trade secrets, inventions, discoveries, or improvements, whether or not registerable or patentable, that are conceived, whether alone or jointly with others, during the Term of this Agreement that are a direct and specific result of the Development Services (collectively, the "Assigned Intellectual Property"). This assignment does not include any such intellectual property that pertains : to (i) neurosurgical principles in general (including products that may pertain to the same pathological conditions in the same anatomical locations that are relevant to the Devices; to (ii) other products or technologies used in neurosurgery; (iii) to proprietary concepts and inventions in which Hilibrand has any right, title, or interest as of the date of the execution of this Agreement (collectively "Prior Rights"), or (iv) to any other concept, know-how, discovery, or other intellectual property that is not within the definition of the Assigned Intellectual Property (all of the foregoing collectively, the "Retained Intellectual Property"). Hilibrand shall not be restricted from assigning, licensing, or otherwise utilizing the Retained Intellectual Property in any manner.

c. Hilibrand hereby agrees to reasonably cooperate with Amedica, its attorneys and agents in the preparation and filing of all papers and other documents as may be required to perfect Amedica's rights in and to any Devices, including, but not limited to, performing all acts reasonably deemed necessary or desirable by Amedica

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(both during the Term and for a period of [*****] after expiration of this Agreement) and joining in any proceeding to obtain letters patent, copyrights, trademarks or other legal rights of the United States of America and of any and all other countries to Devices; provided, that, Amedica will bear the expense of all such proceedings. Hilibrand hereby agrees that any patent or other legal right covering any Assigned Intellectual Property issued to Hilibrand, shall be assigned by Hilibrand to Amedica without charge.

d. Without limiting the foregoing, Hilibrand further acknowledges that all original works of authorship made by such Hilibrand, within the Field of Interest, by Hilibrand that Hilibrand has first conceived and first reduced to writing, whether alone or jointly with others during the Term of this Agreement that are a direct and specific result of the Development Services and that are protectable by copyright are “works made for hire” within the meaning of the United States Copyright Act, 17 U.S.C. § 101, as amended, the copyright of which shall be owned solely, completely and exclusively by Amedica. If any such work is not considered to be a work made for hire covered by the United States Copyright Act, 17 U.S.C. § 101, as amended, such work shall be owned solely by, or hereby assigned or transferred completely and exclusively to, Amedica. Any and all works of authorship described in this Subsection shall be included within the definition of Assigned Intellectual Property.

e. Notwithstanding anything herein to the contrary, Hilibrand expressly disclaims, and Amedica expressly waives, any and all representations and warranties in regard to or concerning the Assigned Intellectual Property, the Development Services and the Devices. Without limiting the foregoing, the parties agree that Hilibrand does not represent or warrant that any portion of the Assigned Intellectual Property is valid,

enforceable, registerable, or original, that it will be free from claims of infringement, interference, or unlawful use of proprietary information of any third party, or that it does not infringe upon the intellectual property rights of any other party. Furthermore, Hilibrand expressly disclaims, and Amedica expressly waives, the warranties of merchantability and fitness for a particular purpose with regard to the Assigned Intellectual Property, the Development Services and the Devices, and any and all representations and warranties that the Assigned Intellectual Property and the Devices will perform or function in any particular manner, with any particular results, or free from defects.

10. Representations and Warranties Regarding Prior Work and Legal Obligations.

- a. Hilibrand hereby represents and warrants that he has no commitments or obligations with any prior employer or any other person or entity that, would restrict his ability to perform the Development Services
- b. Hilibrand represents that he has been advised by Amedica that at no time should he divulge to, or use for the benefit of, Amedica any trade secret or confidential or proprietary information of any previous employer. Hilibrand acknowledges that he has not divulged or used any such information for the benefit of Amedica.
- c. Hilibrand acknowledges that Amedica is basing important business decisions on these representations, and affirms that all of the statements included herein are true.

11. Equitable Remedies. Hilibrand acknowledges that the breach of the provisions of Sections 7, 8, 9 and 10 above shall constitute irreparable damage to Amedica and,

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accordingly, Amedica may, in addition to all other available remedies under law and equity, obtain injunctive relief upon an alleged violation of such Sections pending resolution on the merits of any claims raised by Amedica hereunder.

12. Stock Option Arrangements. As further consideration hereunder, the parties agree in good faith to negotiate an agreement granting Hilibrand, or Hilibrand's designate, certain rights to obtain options for the purchase of Amedica stock. The nature, amount and terms of such options shall be agreed upon by the parties in good-faith as soon as reasonably possible.

13. Development Agreement Only. This Agreement constitutes a development agreement only. Nothing herein is intended, nor shall it be construed, to create any employer/ employee arrangement, partnership arrangement or other relationship between or among the parties except as expressly provided herein; and nothing herein is intended to grant to either party any right or interest in or to the assets, business or interests of the other party, nor the right to bind the other party except as expressly herein provided.

14. Compliance with Laws and Regulations. The parties, at all times, shall interpret and apply the provisions of this Agreement strictly in accordance with all applicable laws and regulations, including, but not limited to all Medicare and Medicaid laws and regulations.

If any provision of this Agreement is found, by any applicable court or government agency, to be in conflict with any applicable law or regulation, the provisions of such law or regulation shall govern; and the interpretation and operation under this Agreement shall be modified accordingly.

The parties have no intent through this Agreement or otherwise to solicit, receive, offer, or pay any remuneration in return for recommending the use or utilization of any good or service

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payable under certain federal health programs, as such is prohibited by the statute at 42 U.S.C. 1320a-7b(b), nor do the parties have any other impermissible intent to violate any similar federal or state law that may apply with regard to any other health care reimbursement program. Hilibrand is under no obligation whatsoever to utilize any products manufactured by Amedica, nor to recommend that such products are utilized by others. If any provision of this Agreement is determined by either party to present a possible violation of any such law, as supported by a written, reasoned opinion of competent legal counsel, the parties shall in good faith negotiate together to amend the terms of this Agreement in a manner that will alleviate any such possible violation while preserving the reasonable business (e.g., compensation) expectations of the parties.

15. Indemnification by Amedica.

a. Amedica will indemnify and hold Hilibrand harmless from any and all claims, costs, judgments and expenses involving (i) any claim that any Device infringes or interferes with any patent or other proprietary claim of any third-party, and (ii) to the extent claimed or proven to be solely due to Device design or manufacturing defect (including reasonable attorneys' fees) of whatever sort based on claims of product design or manufacturing defects whether sounding in negligence, strict liability at law, contract or statutory violation, and (iii) any breach by Amedica of any provision of this Agreement.

b. Any indemnification provided by Amedica hereunder shall not apply to any claim insofar as that claim (i) relates to a professional medical liability or malpractice claim brought against Hilibrand for professional acts or omissions in connection with the medical care or treatment associated with a Device; (ii) arises from any breach by

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Hilibrand of any provision of this Agreements; or (iii) arises from any knowing submission by Hilibrand of false data to Amedica or from any other intentional wrongdoing by Hilibrand.

c. Promptly upon Hilibrand's receipt of information concerning the commencement of any third-party claim, demand, action, suit or proceeding (collectively, "Action") which is the subject of indemnification hereunder, Hilibrand shall notify Amedica in writing of the commencement of the Action. Any failure to provide such prompt notice shall relieve Amedica of its indemnification obligations to the extent Amedica has been materially prejudiced by such failure. Amedica may select counsel at its own expense and control the defense of such indemnity claim; and Hilibrand may participate jointly with Amedica in such defense, at Hilibrand's expense, in which event the parties shall reasonably cooperate with each other. Amedica will vigorously defend any such claim, and shall not settle any such claim or refrain from appealing any adverse ruling, judgment, or verdict without the advance written consent of Hilibrand, which consent shall not be unreasonably withheld. With respect to any Action relating solely to the payment of money damages, Amedica shall have the sole right to defend, settle, or otherwise dispose of such claim on such terms as Amedica, in its sole discretion, shall deem appropriate; provided, that Amedica shall provide reasonable evidence of its ability to pay any damages claimed. If the Action involves any claim in which Hilibrand would become subject to injunctive relief or to other equitable relief, or Hilibrand's business would be adversely affected in any manner, Amedica shall settle that claim only upon the written consent of Hilibrand, which shall not be unreasonably withheld.

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16. Indemnification by Hilibrand. Except to the extent that any such claims arise through the wrongful act or neglect of Amedica, Hilibrand will indemnify and hold Amedica harmless from any and all claims, costs, judgments and expenses arising from any breach by Hilibrand of any warranty, representation or affirmative obligation of Hilibrand under this Agreement.

17. General.

a. Notices. All notices required or permitted to be given to a party hereunder shall be mailed by certified mail or registered mail, postage prepaid, to that party's address set forth on the signature page of this Agreement (or to such other address specified in writing).

b. Default. If either party defaults in any of the covenants or provisions herein, the defaulting party shall pay all costs and attorneys' fees incurred by the other party in enforcing its rights arising hereunder. Hilibrand shall be provided with a copy of any notice given to Hilibrand hereunder:

c. Governing Law and Venue. This Agreement shall be interpreted, performed and enforced according to the laws of Utah. Venue for any action hereof shall lie with the Third Judicial District Court of the State of Utah for the United States District Court for the District of Utah, Central Division.

d. Unenforceable Provision. If any provision of this Agreement is deemed unenforceable by any court of competent jurisdiction, the remaining provisions shall nonetheless be enforceable according to their terms. Further, if any provision is held to be over broad as written, such provision shall be deemed amended to narrow its application to the extent necessary to make the provision enforceable according to applicable law and shall be enforced as amended.

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e. Assignment. Amedica may assign its rights and obligations hereunder to any person or entity that succeeds to all or substantially all of Amedica's business or that aspect of Amedica's business in which Hilibrand is principally involved. Hilibrand's rights and obligations under this Agreement may not be assigned by that Hilibrand without the prior written consent of Amedica.

f. Benefit. All statements, representations, warranties, covenants and agreements in this Agreement shall be binding on the parties hereto and shall inure to the benefit of the respective successors and permitted assigns of each party hereto. Nothing in this Agreement shall be construed to create any rights or obligations except between the parties hereto, and no person or entity shall be regarded as a third-party beneficiary of this Agreement, other than any future parent, subsidiary or affiliate of Amedica.

g. Entire Agreement. This Agreement embodies the entire agreement and understanding between and among the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement of any kind not expressly set forth in this Agreement shall affect, or be used to interpret, change or restrict, the express terms and provisions of this Agreement.

h. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended only by written agreement executed by the parties hereto.

i. Waivers and Consents. The terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

j. Construction. The parties have participated equally in the formation of this Agreement and the language of this Agreement will not be presumptively construed against either party.

k. Counterparts. This Agreement may be executed in one or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

l. Section Numbers and Headings. The Section and Subsection headings and numbers used herein are for purposes of convenience and shall not be considered in the interpretation of this Agreement.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

IN WITNESS WHEREOF this 8th day of September, 2005.

AMEDICA

ADDRESS:

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

AMEDICA CORP.
A DELAWARE CORPORATION

By: /s/ Ashok Khandkar
Its: President and CEO

HILIBRAND

ADDRESS:

Alan Hilibrand, M.D.
[*****]
[*****]

/s/ Alan Hilibrand, M.D.
ALAN HILIBRAND, M.D.

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SCHEDULE A

Devices

The Devices consist of the following:

1. [*****]
2. [*****]

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SCHEDULE B

List of Collaborators

- [1] [*****]
- [2] [*****]
- [3] [*****], and
- [4] [*****]

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**DEVELOPMENT AGREEMENT
BETWEEN AMEDICA CORPORATION AND RODNEY PLASTER, M.D.**

This Development Agreement (this "Agreement") is made and entered into as of the 12th day of December, 2005 (the "Effective Date"), by and between AMEDICA CORP., a Delaware corporation ("Amedica"), and Rodney Plaster, M.D. ("Plaster").

RECITALS:

A. Amedica is in the business of designing, developing and selling various products and applications for medical and biomedical uses and from various materials, including the use of advanced ceramic materials;

B. Amedica desires to continue to encourage the conceiving, development, testing, providing education and dealing with novel devices for implant in or use with hip and knee reconstructive medical and surgical procedures ("Devices"), whether manufactured from ceramic materials or other materials;

C. Plaster is an orthopedic surgeon having knowledge and expertise relating to hip and knee reconstructive procedures; and

D. The parties desire to enter into arrangements between the parties to assist in the future development, approval, trial and clinical use of Devices.

NOW, THEREFORE, in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree and represent as follows:

1. Definitions.

For purposes of this Agreement, the following terms shall have the following definitions:

a. "Development Services" means the development and related services as requested by Amedica relating to the conceptualization, development, testing, approval and related matters involving the Devices more fully described in Section "b" below;

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b. "Devices" are exclusively limited to those designated in Schedule "A" attached hereto and includes all ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials, whether or not patentable, including all rights to obtain, perfect or enforce any proprietary interests therein, pertaining to such devices as limited in Schedule A, which Plaster, whether alone or in concert with others, may conceive, reduce to practice or develop during the Term (or, if based on or related to any confidential or proprietary information of Amedica, within [*****] after the termination of this Agreement), alone or in conjunction with another, or others, whether during or out of regular business hours, and whether at the request or upon the suggestion of Amedica.

2. Cooperative Development Arrangements.

The parties intend that Plaster shall diligently perform the Development Services and provide reasonable input and expertise hereunder. The Development Services shall include, without limitation, the following:

- a. Examining and reviewing the characteristics of the Devices and the nature of the materials with which the Devices are constructed;
- b. Providing expertise in ideas and testing pertaining to the Devices, and coordination with other Amedica personnel and third-parties related to such testing, as requested by Amedica;
- c. Providing guidance and assistance in the clinical details of the Devices;

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d. Assisting by providing the written portions of the patent applications pertaining to the Devices as determined by Amedica and approved by Plaster; and

e. Assisting by providing the written portions of applications for regulatory approval for the Devices or surgical processes for their implantation or other use.

3. Term and Termination.

a. The term ("Term") of this Agreement shall commence as of the Effective Date and shall continue until the later of:

(i) Ten (10) years from the date hereof; or

(ii) The expiration of patent rights on the Devices, unless earlier terminated as provided hereunder.

b. Either party has the right to terminate this Agreement at any time upon thirty (30) days prior written notice to the other. Upon termination, Amedica's sole obligation to Plaster will be to pay any then outstanding unpaid fees, royalties or other compensation due Plaster under the terms of this contract and to reimburse Plaster for then outstanding reimbursable expenses. Royalty payments rightfully due Plaster will continue being paid by Amedica to Plaster or his designated beneficiary after the termination of this agreement. Further, Plaster will have the option to sell any and all Amedica stock options then owned by Plaster back to Amedica at the market value per share.

4. Compensation for Assignment and Sale of Proprietary Rights.

a. As full consideration for the Development Services related solely to [*****] and any assignment of right in [*****] related to [*****] to Amedica pursuant to Section 9 hereof, Amedica shall pay Plaster the total of the following:

(i) Plaster shall, in the form of royalty or similar payments, payable on a monthly basis, receive [*****] of the Net After-Tax Profits for the [*****] from Amedica; provided, that this is subject to the provisions of Subsection 4(d) below.

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b. As full consideration for the Development Services related solely to the [*****] and any assignment of right in Devices related to the [*****], Amedica pursuant to Section 9 hereof, shall pay Plaster the total of the following:

(i) Plaster shall, in the form of royalty or similar payments, payable on a monthly basis, receive a total of [*****] of the Net After-Tax Profits; provided, that this is subject to the provisions of Subsection 4(d) below.

c. As full consideration for the Development Services related solely to the [*****] and any assignment of right in Devices related to the, [*****], Amedica pursuant to Section 9 hereof, shall pay Plaster the total of the following:

(i) Plaster shall, in the form of royalty or similar payments, payable on a monthly basis, receive a total of [*****] of the Net After-Tax Profits; provided, that this is subject to the provisions of Subsection 4(d) below.

d. "Net After-Tax Profits" is defined as that portion of profits received by Amedica attributable to the sale of Devices, after deducting from all gross proceeds from such sales the costs and expenses attributable to the development, testing, marketing and sale of the Devices (but not including any Amedica overhead or expenses unrelated to the Devices), and less all sales, use, occupation or excise taxes and all income taxes applicable to income generated from the Devices.

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e. Upon Plaster's death, or upon letters from two independent physicians that Plaster is disabled and unable to perform the nature of the Development Services hereunder, this Agreement shall terminate as to Plaster; provided, that Plaster or Plaster's designated beneficiary, shall continue to be entitled to receive the royalties as provided herein, applicable to all Devices completed for marketing prior to the date of death or disability.

f. Notwithstanding any provision herein to the contrary, income used for calculating royalties payable to Plaster hereunder shall not include any sales attributable to the use of any Devices by any hospital or surgical center where Plaster (or a partner, shareholder, employee or contracting physician) currently practices medicine. No provision under this Agreement, either overtly or covertly, directly or indirectly, requires or contemplates that Plaster make any recommendations to Plaster's patients or health care facilities with respect to Amedica's Devices or other products. There shall be no adjustment to the percentage of royalties, or the rate of any other compensation, resulting from the presence of or absence of, any recommendations of Amedica's Devices or other products to Plaster's patients or health care facilities by Plaster.

g. Amedica shall maintain separate accountings relating to the Devices. Plaster shall, at all times, have reasonable access to examine Amedica's books and records relating to the Devices.

h. Plaster acknowledges that the payment provisions of this Section 4 represents the sole agreement between the parties with regard to Plaster's compensation for all Development Services and any assignment of rights to the Devices; and Amedica shall not be

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obligated to make, or otherwise be liable for, any additional payment of compensation or reimbursement of expenses with regard to Development Services or the Devices or other similar type payment. It is the parties' intent that this Agreement provide for the "sale or exchange of a capital asset" by Plaster to Amedica under Internal Revenue Code Section 1235 entitled "Sale or Exchange of Patents," and that all payments made to Plaster hereunder shall be taxed as long-term capital gains. Nothing in this Agreement to the contrary shall imply that the parties intend that the payments to Plaster hereunder shall be for anything other than the transfer of all proprietary rights that Plaster may have in the Devices. Amedica is making no warranties or representations, however, as to ultimate taxability of the payments to Plaster hereunder.

5. Exclusivity.

Amedica acknowledges that Plaster has other professional business and investment dealings in addition to his responsibilities under this Agreement and that Plaster will not be required to devote his time exclusively to his responsibilities hereunder. Notwithstanding any provision herein to the contrary, Plaster agrees that during the Term, Amedica shall have the exclusive rights to the Devices.

6. Confidentiality.

a. Both during the Term and following termination of this Agreement for any reason, except as necessary for the performance of the Development Services hereunder, Plaster shall not, at any time or in any manner, directly or indirectly, use, divulge, disclose or communicate to any third-person or entity any information that was disclosed to or developed by Plaster during the course of performing the Development Services and which is not generally available to the public, including, without limiting the generality of the foregoing: information regarding matters affecting or relating to Amedica's business or its Devices; the nature of

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Amedica's properties or products, whether developed or under development; the identity of Amedica's customers; prices which Amedica obtains or has obtained with respect to its products or services; information as to Amedica's discussions, negotiations and/or dealings with actual or potential third-party buyers, investors, licensees or co-venturers; Amedica's costs, overhead or profit margin; or Amedica's operational methods or its business plans and processes. All material as such will be labeled "confidential".

b. Records; Promptly following termination of this Agreement, Plaster shall deliver to Amedica any and all property of Amedica which may be in his possession including products, materials, memoranda, notes, records, reports, writings, drawings, diskettes, models and other materials or other documents or photocopies of the same in any tangible form whatsoever constituting confidential or proprietary information of Amedica, and any of the foregoing in intangible form.

7. Covenant Not to Compete.

a. Certain Acknowledgments and Agreements. Plaster recognizes and acknowledges the competitive and proprietary nature of Amedica's business operations. Plaster acknowledges and agrees that a business will be deemed competitive with Amedica if it engages in a line of business in which it develops, manufactures or sells any products provided or offered by Amedica or any similar ceramic products to those defined in Schedule "A".

b. Plaster agrees that during the Term and for an additional [*****] after termination of this Agreement (which period shall be tolled during the period of any violation or breach of any of the provisions hereof and for a period of [*****] thereafter), whether such termination is voluntary or involuntary, Plaster shall not:

(i) For his benefit, or on behalf of any other person or entity, directly or indirectly, as principal, agent, stockholder, employee, consultant, representative or in any other capacity, own, manage, operate or control, or be concerned, connected or employed by, or otherwise associate in any manner with, engage in or have a financial interest in any Competitive Business dealing, manufacturing or having an interest in the devices listed in Schedule "A" anywhere in the continental United States of America (the "Restricted Territory"), except that nothing contained herein shall preclude Plaster from purchasing or owning securities of any such business if such securities are publicly traded, and provided that his holdings do not exceed one percent (1%) of the issued and outstanding securities of any class of securities of such business; or

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(ii) Either individually or on behalf of or through any third party, solicit, divert or appropriate or attempt to solicit, divert or appropriate, any known customers or patrons of Amedica; or

(iii) Either individually or on behalf of or through any third party, directly or indirectly, solicit, entice or persuade or attempt to solicit, entice or persuade any other employees of or consultants to Amedica or any present or future parent, subsidiary or affiliate of Amedica to leave the services of Amedica or any such parent, subsidiary or affiliate for any reason.

c. Reasonableness of Restrictions. Plaster further recognizes and acknowledges that:

(i) The restrictions in this Section 7 are reasonable in relation to the skills which represent his principal salable asset both to Amedica and to any prospective employers; and

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

(ii) The geographical scope of the provisions of this Section 7 is reasonable, legitimate and fair to Plaster in light of Amedica's need to market its services and sell its products worldwide in order to have a sufficient customer base to make Amedica's business profitable and in light of the limited restrictions on the type of employment prohibited herein compared to the types of employment for which Plaster is qualified to earn his livelihood.

d. Survival of Acknowledgments and Agreements. The acknowledgments and agreements set forth in this Section 7 shall survive the expiration or termination of this Agreement.

8. Ownership of Ideas, Copyrights and Patents.

a. Disclosure of Devices. Plaster agrees that he will promptly disclose all Devices to Amedica and that he will not publish any Devices, or any information with regard thereto, without the prior written consent of Amedica.

b. Property of Amedica. Amedica shall have the sole and exclusive right, even as to Plaster, to prepare, file, prosecute, obtain and maintain any and all patents and patent applications claiming any Devices. All Devices shall be the sole and exclusive property of Amedica and, subject to payment pursuant to the provisions of Section 3 hereof, Plaster hereby assigns to Amedica all of his right, title and interest in and to all of the Devices unless Amedica fails to commence the manufacture, marketing or distribution of the Devices within [*****] of development. Plaster further agrees to use his best efforts to ensure that no Devices will violate or infringe upon any right, patent, copyright, trademark or right of privacy, or constitute libel or slander against or violate any other rights of any person, firm or corporation.

c. Prior Rights. Plaster has attached hereto as Schedule "B"

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

(i) A list of all proprietary concepts and inventions in which he has any right, title, or interest as of the date of his execution of this Agreement (“Prior Rights”); and

(ii) A list of all Prior Rights made, conceived, or developed, in whole or in part, by Plaster prior to the date of his execution of this Agreement, and Plaster represents that Schedule “B” is a complete and accurate list of all Prior rights.

d. Cooperation. Plaster hereby agrees to willfully cooperate with Amedica, its attorneys and agents in the preparation and filing of all papers and other documents as may be required to perfect Amedica’s rights in and to any Devices, including, but not limited to, performing all acts deemed necessary or desirable by Amedica (both during the Term and for a period of [*****] after expiration of this Agreement) and joining in any proceeding to obtain letters patent, copyrights, trademarks or other legal rights of the United States of America and of any and all other countries to Devices; provided, that, Amedica will bear the expense of all such proceedings, Plaster hereby agrees that any patent or other legal right covering any Device issued to Plaster personally, shall be assigned by Plaster to Amedica without charge by Plaster, except as specifically provided under Section 3 hereof.

e. Works Made For Hire. Without limiting the foregoing, Plaster further acknowledges that all original works of authorship made by Plaster after the execution of this agreement, whether alone or jointly with others in the performance of the Development Services and which are protectable by copyright are “works made for hire” within the meaning of the United States Copyright Act, 17 U.S.C. § 101, as amended, the copyright of which shall be owned solely, completely and exclusively by Amedica. If any Device is considered to be work not included in the categories of work covered by the United States Copyright Act, 17 U.S.C. § 101, as amended, such work shall be owned solely by, or hereby assigned or transferred completely and exclusively to Amedica.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company’s application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

9. Representations and Warranties Regarding Prior Work and Legal Obligations.

a. Plaster hereby represents and warrants that he has no commitments or obligations with any prior employer or any other person or entity that would restrict his ability to perform the Development Services, or is inconsistent with this Agreement and Plaster hereby agrees to indemnify and hold Amedica harmless against loss, damage, liability or expense arising from any claim based upon circumstances alleged to be inconsistent with such representation and warranty.

b. Plaster represents that he has been advised by Amedica that at no time should he divulge to, or use for the benefit of, Amedica any trade secret or confidential or proprietary information of any previous employer. Plaster acknowledges that he has not divulged or used any such information for the benefit of Amedica.

c. Plaster represents that he has not and will not misappropriate any invention that he maintained any part in creating while working for any former employer.

d. Plaster acknowledges that Amedica is basing important business decisions on these representations, and affirms that all of the statements included herein are true.

10. Equitable Remedies.

Plaster acknowledges that the breach of the provisions of Sections 6, 7, 8 and 9 above shall constitute irreparable damage to Amedica and, accordingly, Amedica may, in addition to all other available remedies under law and equity, obtain injunctive relief upon an alleged violation of such Sections pending resolution on the merits of any claims raised by Amedica hereunder.

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11. Stock Option Arrangements.

As further consideration hereunder, the parties agree in good faith to negotiate an agreement granting Plaster certain rights to obtain options for the purchase of Amedica stock. The nature, amount and terms of such options shall be agreed upon by the parties in good-faith as soon as reasonably possible.

12. Development Agreement Only.

This Agreement constitutes a development agreement only. Nothing herein is intended, nor shall it be construed, to create any employer/employee arrangement, partnership arrangement or other relationship between or among the parties except as expressly provided herein; and nothing herein is intended to grant to either party any right or interest in or to the assets, business or interests of the other party, nor the right to bind the other party except as expressly herein provided.

13. Compliance with Laws and Regulations.

The parties, at all times, shall interpret and apply the provisions of this Agreement strictly in accordance with all applicable laws and regulations, including, but not limited to, the so-called Stark federal anti-referral law and all Medicare and Medicaid laws and regulations. If any provision of this Agreement is found, by any applicable court or government agency, to be in conflict with any applicable law or regulation, the provisions of such law or regulation shall govern; and the interpretation and operation under this Agreement shall be modified accordingly.

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14. Indemnification by Amedica.

a. Amedica will indemnify and hold Plaster harmless from any and all claims, costs, judgments and expenses involving:

(i) Any claim that any Device infringes or interferes with any patent or other proprietary claim of any third-party;

(ii) To the extent claimed or proven to be solely due to Device design or manufacturing defect (including reasonable attorneys' fees) of whatever sort based on claims of product design or manufacturing defects whether sounding in negligence, strict liability at law, contract or statutory violation; and

(iii) Any breach by Amedica of any provision of this Agreement.

b. Any indemnification provided by Amedica hereunder shall not apply to any claim insofar as that claims:

(i) Relates to a professional medical liability or malpractice claim brought against Plaster for professional acts or omissions in connection with the medical care or treatment associated with a Device;

(ii) Arises from any breach by Plaster of any provision of this Agreement; or

(iii) Arises from any knowing submission by Plaster of false data to Amedica or from any other intentional wrongdoing by Plaster.

c. Promptly upon Plaster's receipt of information concerning the commencement of any third-party claim, demand, action, suit or proceeding (collectively, "Action") which is the subject of indemnification hereunder, Plaster shall notify Amedica in writing of the commencement of the Action. Any failure to provide such prompt notice shall

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relieve Amedica of its indemnification obligations to the extent Amedica has been materially prejudiced by such failure. Amedica may select counsel at its own expense and control the defense of such indemnity claim and Plaster may participate jointly with Amedica in such defense, at Plaster's expense, in which event the parties shall reasonably cooperate with each other subject, however, to Amedica's ultimate control of the defense. With respect to any Action relating solely to the payment of money damages, Amedica shall have the sole right to defend, settle, or otherwise dispose of such claim on such terms as Amedica, in its sole discretion, shall deem appropriate; provided, that Amedica shall provide reasonable evidence of its ability to pay any damages claimed. If the Action involves any claim in which Plaster would become subject to injunctive relief or to other equitable relief, or Plaster's business would be adversely affected in any manner, Amedica shall settle that claim only upon the written consent of Plaster, which shall not be unreasonably withheld.

15. Indemnification by Plaster.

Except to the extent that any such claims arise through the wrongful act or neglect of Amedica, Plaster will indemnify and hold Amedica harmless from any and all claims, costs, judgments and expenses arising from any breach by Plaster of any provision of this Agreement.

16. General.

a. Notices. All notices required or permitted to be given to a party hereunder shall be mailed by certified mail or registered mail, postage prepaid, to that party's address set forth on the signature page of this Agreement (or to such other address specified in writing).

b. Default. If either party defaults upon any of the covenants or provisions herein, the defaulting party shall pay all costs and attorneys' fees incurred by the other party in enforcing its rights arising hereunder.

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c. Governing Law and Venue. This Agreement shall be interpreted, performed and enforced according to the laws of Utah. Venue for any action hereof shall lie with the Third Judicial District Court of the State of Utah for the United States District Court for the District of Utah, Central Division.

d. Unenforceable Provision. If any provision of this Agreement is deemed unenforceable by any court of competent jurisdiction, the remaining provisions shall nonetheless be enforceable according to their terms. Further, if any provision is held to be over broad as written, such provision shall be deemed amended to narrow its application to the extent necessary to make the provision enforceable according to applicable law and shall be enforced as amended.

e. Assignment. Amedica may assign its rights and obligations hereunder to any person or entity that succeeds to all or substantially all of Amedica's business or that aspect of Amedica's business in which Plaster is principally involved. Plaster's rights and obligations under this Agreement may not be assigned by Plaster without the prior written consent of Amedica.

f. Benefit. All statements, representations, warranties, covenants and agreements in this Agreement shall be binding on the parties hereto and shall inure to the benefit of the respective successors and permitted assigns of each party hereto. Nothing in this Agreement shall be construed to create any rights or obligations except between the parties hereto, and no person or entity shall be regarded as a third-party beneficiary of this Agreement, other than any future parent, subsidiary or affiliate of Amedica.

g. Entire Agreement. This Agreement embodies the entire agreement and understanding between and among the parties hereto with respect to the subject matter hereof

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and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement of any kind not expressly set forth in this Agreement shall affect, or be used to interpret, change or restrict, the express terms and provisions of this Agreement.

h. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended only by written agreement executed by the parties hereto.

i. Waivers and Consents. The terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

j. Construction. The parties have participated equally in the formation of this Agreement and the language of this Agreement will not be presumptively construed against either party.

k. Counter. This Agreement may be executed in one or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

l. Section Numbers and Headings. The Section and Subsection headings and numbers used herein are for purposes of convenience and shall not be considered in the interpretation of this Agreement.

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IN WITNESS WHEREOF this 12th day of December, 2005.

AMEDICA ADDRESS
AMEDICA CORP.
A DELAWARE CORPORATION

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

/s/ Eugene B. Jones

Eugene B. Jones
Vice President Finance & CFO

PLASTER ADDRESS

Rodney Plaster, M.D.
[*****]
[*****]

/s/ Rodney Plaster

RODNEY PLASTER, M.D.

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SCHEDULE A

Devices:

The Devices consist of the following, [*****];

1. [*****];
2. [*****]; and
3. [*****].

A-1

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SCHEDULE B

Prior Rights:

1. [*****]

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**DEVELOPMENT AGREEMENT
BETWEEN AMEDICA CORPORATION AND MICHAEL BOLOGNESI M.D.**

This Development Agreement (this "Agreement") is made and entered into as of the 21st day of January, 2006 (the "Effective Date"), by and between AMEDICA CORP., a Delaware corporation ("Amedica"), and Michael Bolognesi, M.D. ("Bolognesi").

RECITALS:

A. Amedica is in the business of designing, developing and selling various products and applications for medical and biomedical uses and from various materials, including the use of advanced ceramic materials;

B. Amedica desires to continue to encourage the conceiving, development, testing, providing education and dealing with novel devices for implant in or use with hip and knee reconstructive medical and surgical procedures ("Devices"), whether manufactured from ceramic materials or other materials;

C. Bolognesi an orthopedic surgeon having knowledge and expertise relating to hip and knee reconstructive procedures; and

D. The parties desire to enter into arrangements between the parties to assist in the future development, approval, trial and clinical use of Devices.

NOW, THEREFORE, in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree and represent as follows:

1. Definitions.

For purposes of this Agreement, the following terms shall have the following definitions:

a. "Development Services" means the development and related services as requested by Amedica relating to the conceptualization, development, testing, approval and related matters involving the Devices more fully described in Section "b" below;

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b. "Devices" are exclusively limited to those designated in Schedule "A" attached hereto and includes all ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials, whether or not patentable, including all rights to obtain, perfect or enforce any proprietary interests therein, pertaining to such devices as limited in Schedule A, which Bolognesi, whether alone or in concert with others, may conceive, reduce to practice or develop during the Term (or, if based on or related to any confidential or proprietary information of Amedica, within [*****] after the termination of this Agreement), alone or in conjunction with another, or others, whether during or out of regular business hours, and whether at the request or upon the suggestion of Amedica.

2. Cooperative Development Arrangements.

The parties intend that Bolognesi shall diligently perform the Development Services and provide reasonable input and expertise hereunder. The Development Services shall include, without limitation, the following:

- a. Examining and reviewing the characteristics of the Devices and the nature of the materials with which the Devices are constructed;
- b. Providing expertise in ideas and testing pertaining to the Devices, and coordination with other Amedica personnel and third-parties related to such testing, as requested by Amedica;
- c. Providing guidance and assistance in the clinical details of the Devices;

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d. Assisting by providing the written portions of the patent applications pertaining to the Devices as determined by Amedica and approved by Bolognesi; and

e. Assisting by providing the written portions of applications for regulatory approval for the Devices or surgical processes for their implantation or other use.

3. Term and Termination.

a. The term ("Term") of this Agreement shall commence as of the Effective Date and shall continue until the later of:

(i) Ten (10) years from the date hereof; or

(ii) The expiration of patent rights on the Devices, unless earlier terminated as provided hereunder.

b. Either party has the right to terminate this Agreement at any time upon thirty (30) days prior written notice to the other. Upon termination, Amedica's sole obligation to Bolognesi will be to pay any then outstanding unpaid fees, royalties or other compensation due Bolognesi under the terms of this contract and to reimburse Bolognesi for then outstanding reimbursable expenses. Royalty payments rightfully due Bolognesi will continue being paid by Amedica to Bolognesi or his designated beneficiary after the termination of this agreement. Further, Bolognesi will have the option to sell any and all Amedica stock options then owned by Bolognesi back to Amedica at the market value per share.

4. Compensation for Assignment and Sale of Proprietary Rights.

a. As full consideration for the Development Services related solely to [*****] and any assignment of right [*****] to Amedica pursuant to Section 9 hereof, Amedica shall pay Bolognesi the total of the following:

(i) Bolognesi shall, in the form of royalty or similar payments, payable on a monthly basis, receive [*****] of the Net After-Tax Profits for the [*****] from Amedica; provided, that this is subject to the provisions of Subsection 4(d) below.

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b. As full consideration for the Development Services related solely to the [*****] and any assignment of right in Devices related to the [*****], Amedica pursuant to Section 9 hereof, shall pay Bolognesi the total of the following:

(i) Bolognesi shall, in the form of royalty or similar payments, payable on a monthly basis, receive a total of [*****] of the Net After-Tax Profits; provided, that this is subject to the provisions of Subsection 4(d) below.

c. As full consideration for the Development Services related solely to the [*****] and any assignment of right in Devices related to the [*****], Amedica pursuant to Section 9 hereof, shall pay Bolognesi the total of the following:

(i) Bolognesi shall, in the form of royalty or similar payments, payable on a monthly basis, receive a total of [*****] of the Net After-Tax Profits; provided, that this is subject to the provisions of Subsection 4(d) below.

d. "Net After-Tax Profits" is defined as that portion of profits received by Amedica attributable to the sale of Devices, after deducting from all gross proceeds from such sales the costs and expenses attributable to the development, testing, marketing and sale of the Devices (but not including any Amedica overhead or expenses unrelated to the Devices), and less all sales, use, occupation or excise taxes and all income taxes applicable to income generated from the Devices.

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e. Upon Bolognesi's death, or upon letters from two independent physicians that Bolognesi is disabled and unable to perform the nature of the Development Services hereunder, this Agreement shall terminate as to Bolognesi; provided, that Bolognesi or Bolognesi's designated beneficiary, shall continue to be entitled to receive the royalties as provided herein, applicable to all Devices completed for marketing prior to the date of death or disability.

f. Notwithstanding any provision herein to the contrary, income used for calculating royalties payable to Bolognesi hereunder shall not include any sales attributable to the use of any Devices by any hospital or surgical center where Bolognesi (or a partner, shareholder, employee or contracting physician) currently practices medicine. No provision under this Agreement, either overtly or covertly, directly or indirectly, requires or contemplates that Bolognesi make any recommendations to Bolognesi's patients or health care facilities with respect to Amedica's Devices or other products. There shall be no adjustment to the percentage of royalties, or the rate of any other compensation, resulting from the presence of or absence of, any recommendations of Amedica's Devices or other products to Bolognesi's patients or health care facilities by Bolognesi.

g. Amedica shall maintain separate accountings relating to the Devices. Bolognesi shall, at all times, have reasonable access to examine Amedica's books and records relating to the Devices.

h. Bolognesi acknowledges that the payment provisions of this Section 4 represents the sole agreement between the parties with regard to Bolognesi's compensation for

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all Development Services and any assignment of rights to the Devices; and Amedica shall not be obligated to make, or otherwise be liable for, any additional payment of compensation or reimbursement of expenses with regard to Development Services or the Devices or other similar type payment. It is the parties' intent that this Agreement provide for the "sale or exchange of a capital asset" by Bolognesi to Amedica under Internal Revenue Code Section 1235 entitled "Sale or Exchange of Patents," and that all payments made to Bolognesi hereunder shall be taxed as long-term capital gains. Nothing in this Agreement to the contrary shall imply that the parties intend that the payments to Bolognesi hereunder shall be for anything other than the transfer of all proprietary rights that Bolognesi may have in the Devices. Amedica is making no warranties or representations, however, as to ultimate taxability of the payments to Bolognesi hereunder.

5. Exclusivity.

Amedica acknowledges that Bolognesi has other professional business and investment dealings in addition to his responsibilities under this Agreement and that Bolognesi will not be required to devote his time exclusively to his responsibilities hereunder. Notwithstanding any provision herein to the contrary, Bolognesi agrees that during the Term, Amedica shall have the exclusive rights to the Devices.

6. Confidentiality.

a. Both during the Term and following termination of this Agreement for any reason, except as necessary for the performance of the Development Services hereunder, Bolognesi shall not, at any time or in any manner, directly or indirectly, use, divulge, disclose or communicate to any third-person or entity any information that was disclosed to or developed by Bolognesi during the course of performing the Development Services and which is not generally available to the public, including, without limiting the generality of the foregoing: information

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regarding matters affecting or relating to Amedica's business or its Devices; the nature of Amedica's properties or products, whether developed or under development; the identity of Amedica's customers; prices which Amedica obtains or has obtained with respect to its products or services; information as to Amedica's discussions, negotiations and/or dealings with actual or potential third-party buyers, investors, licensees or co-venturers; Amedica's costs, overhead or profit margin; or Amedica's operational methods or its business plans and processes. All material as such will be labeled "confidential".

b. Records. Promptly following termination of this Agreement, Bolognesi shall deliver to Amedica any and all property of Amedica which may be in his possession including products, materials, memoranda, notes, records, reports, writings, drawings, diskettes, models and other materials or other documents or photocopies of the same in any tangible form whatsoever constituting confidential or proprietary information of Amedica, and any of the foregoing in intangible form.

7. Covenant Not to Compete.

a. Certain Acknowledgments and Agreements. Bolognesi recognizes and acknowledges the competitive and proprietary nature of Amedica's business operations. Bolognesi acknowledges and agrees that a business will be deemed competitive with Amedica if it engages in a line of business in which it develops, manufactures or sells any products provided or offered by Amedica or any similar ceramic products to those defined in Schedule "A".

b. Bolognesi agrees that during the Term and for an additional [*****] after termination of this Agreement (which period shall be tolled during the period of any violation or breach of any of the provisions hereof and for a period of [*****] thereafter), whether such termination is voluntary or involuntary, Bolognesi shall not:

(i) For his benefit, or on behalf of any other person or entity, directly or indirectly, as principal, agent, stockholder, employee, consultant, representative or in any other capacity, own, manage, operate or control, or be concerned, connected or employed by, or otherwise associate in any manner with, engage in or have a financial interest in any Competitive Business dealing, manufacturing or having an interest in the devices listed in Schedule "A" anywhere in the continental United States of America (the "Restricted Territory"), except that nothing contained herein shall preclude Bolognesi from purchasing or owning securities of any such business if such securities are publicly traded, and provided that his holdings do not exceed one percent (1%) of the issued and outstanding securities of any class of securities of such business; or

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(ii) Either individually or on behalf of or through any third party, solicit, divert or appropriate or attempt to solicit, divert or appropriate, any known customers or patrons of Amedica; or

(iii) Either individually or on behalf of or through any third party, directly or indirectly, solicit, entice or persuade or attempt to solicit, entice or persuade any other employees of or consultants to Amedica or any present or future parent, subsidiary or affiliate of Amedica to leave the services of Amedica or any such parent, subsidiary or affiliate for any reason.

c. Reasonableness of Restrictions. Bolognesi further recognizes and acknowledges that:

(i) The restrictions in this Section 7 are reasonable in relation to the skills which represent his principal salable asset both to Amedica and to any prospective employers; and

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(ii) The geographical scope of the provisions of this Section 7 is reasonable, legitimate and fair to Bolognesi in light of Amedica's need to market its services and sell its products worldwide in order to have a sufficient customer base to make Amedica's business profitable and in light of the limited restrictions on the type of employment prohibited herein compared to the types of employment for which Bolognesi is qualified to earn his livelihood.

d. Survival of Acknowledgments and Agreements. The acknowledgments and agreements set forth in this Section 7 shall survive the expiration or termination of this Agreement.

8. Ownership of Ideas, Copyrights and Patents.

a. Disclosure of Devices. Bolognesi agrees that he will promptly disclose all Devices to Amedica and that he will not publish any Devices, or any information with regard thereto, without the prior written consent of Amedica.

b. Property of Amedica. Amedica shall have the sole and exclusive right, even as to Bolognesi, to prepare, file, prosecute, obtain and maintain any and all patents and patent applications claiming any Devices. All Devices shall be the sole and exclusive property of Amedica and, subject to payment pursuant to the provisions of Section 3 hereof, Bolognesi hereby assigns to Amedica all of his right, title and interest in and to all of the Devices unless Amedica fails to commence the manufacture, marketing or distribution of the Devices within [*****] of development. Bolognesi further agrees to use his best efforts to ensure that no Devices will violate or infringe upon any right, patent, copyright, trademark or right of privacy, or constitute libel or slander against or violate any other rights of any person, firm or corporation.

c. Prior Rights. Bolognesi has attached hereto as Schedule "B"

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(i) A list of all proprietary concepts and inventions in which he has any right, title, or interest as of the date of his execution of this Agreement (“Prior Rights”); and

(ii) A list of all Prior Rights made, conceived, or developed, in whole or in part, by Bolognesi prior to the date of his execution of this Agreement, and Bolognesi represents that Schedule “B” is a complete and accurate list of all Prior rights.

d. Cooperation. Bolognesi hereby agrees to willfully cooperate with Amedica, its attorneys and agents in the preparation and filing of all papers and other documents as may be required to perfect Amedica’s rights in and to any Devices, including, but not limited to, performing all acts deemed necessary or desirable by Amedica (both during the Term and for a period of [*****] after expiration of this Agreement) and joining in any proceeding to obtain letters patent, copyrights, trademarks or other legal rights of the United States of America and of any and all other countries to Devices; provided, that, Amedica will bear the expense of all such proceedings, Bolognesi hereby agrees that any patent or other legal right covering any Device issued to Bolognesi personally, shall be assigned by Bolognesi to Amedica without charge by Bolognesi, except as specifically provided under Section 3 hereof.

e. Works Made For Hire. Without limiting the foregoing, Bolognesi further acknowledges that all original works of authorship made by Bolognesi after the execution of this agreement, whether alone or jointly with others in the performance of the Development Services and which are protectable by copyright are “works made for hire” within the meaning of the United States Copyright Act, 17 U.S.C. § 101, as amended, the copyright of which shall be owned solely, completely and exclusively by Amedica. If any Device is considered to be work not included in the categories of work covered by the United States Copyright Act, 17 U.S.C. § 101, as amended, such work shall be owned solely by, or hereby assigned or transferred completely and exclusively to Amedica.

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9. Representations and Warranties Regarding Prior Work and Legal Obligations.

a. Bolognesi hereby represents and warrants that he has no commitments or obligations with any prior employer or any other person or entity that would restrict his ability to perform the Development Services, or is inconsistent with this Agreement and Bolognesi hereby agrees to indemnify and hold Amedica harmless against loss, damage, liability or expense arising from any claim based upon circumstances alleged to be inconsistent with such representation and warranty.

b. Bolognesi represents that he has been advised by Amedica that at no time should he divulge to, or use for the benefit of, Amedica any trade secret or confidential or proprietary information of any previous employer. Bolognesi acknowledges that he has not divulged or used any such information for the benefit of Amedica.

c. Bolognesi represents that he has not and will not misappropriate any invention that he maintained any part in creating while working for any former employer.

d. Bolognesi acknowledges that Amedica is basing important business decisions on these representations, and affirms that all of the statements included herein are true.

10. Equitable Remedies.

Bolognesi acknowledges that the breach of the provisions of Sections 6, 7, 8 and 9 above shall constitute irreparable damage to Amedica and, accordingly, Amedica may, in addition to all other available remedies under law and equity, obtain injunctive relief upon an alleged violation of such Sections pending resolution on the merits of any claims raised by Amedica hereunder.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

11. Stock Option Arrangements.

As further consideration hereunder, the parties agree in good faith to negotiate an agreement granting Bolognesi certain rights to obtain options for the purchase of Amedica stock. The nature, amount and terms of such options shall be agreed upon by the parties in good-faith as soon as reasonably possible.

12. Development Agreement Only.

This Agreement constitutes a development agreement only. Nothing herein is intended, nor shall it be construed, to create any employer/ employee arrangement, partnership arrangement or other relationship between or among the parties except as expressly provided herein; and nothing herein is intended to grant to either party any right or interest in or to the assets, business or interests of the other party, nor the right to bind the other party except as expressly herein provided.

13. Compliance with Laws and Regulations.

The parties, at all times, shall interpret and apply the provisions of this Agreement strictly in accordance with all applicable laws and regulations, including, but not limited to, the so-called Stark federal anti-referral law and all Medicare and Medicaid laws and regulations. If any provision of this Agreement is found, by any applicable court or government agency, to be in conflict with any applicable law or regulation, the provisions of such law or regulation shall govern; and the interpretation and operation under this Agreement shall be modified accordingly.

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14. Indemnification by Amedica.

a. Amedica will indemnify and hold Bolognesi harmless from any and all claims, costs, judgments and expenses involving:

(i) Any claim that any Device infringes or interferes with any patent or other proprietary claim of any third-party;

(ii) To the extent claimed or proven to be solely due to Device design or manufacturing defect (including reasonable attorneys' fees) of whatever sort based on claims of product design or manufacturing defects whether sounding in negligence, strict liability at law, contract or statutory violation; and

(iii) Any breach by Amedica of any provision of this Agreement.

b. Any indemnification provided by Amedica hereunder shall not apply to any claim insofar as that claims:

(i) Relates to a professional medical liability or malpractice claim brought against Bolognesi for professional acts or omissions in connection with the medical care or treatment associated with a Device;

(ii) Arises from any breach by Bolognesi of any provision of this Agreement; or

(iii) Arises from any knowing submission by Bolognesi of false data to Amedica or from any other intentional wrongdoing by Bolognesi.

c. Promptly upon Bolognesi's receipt of information concerning the commencement of any third-party claim, demand, action, suit or proceeding (collectively, "Action") which is the subject of indemnification hereunder, Bolognesi shall notify Amedica in writing of the commencement of the Action. Any failure to provide such prompt notice shall

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relieve Amedica of its indemnification obligations to the extent Amedica has been materially prejudiced by such failure. Amedica may select counsel at its own expense and control the defense of such indemnity claim and Bolognesi may participate jointly with Amedica in such defense, at Bolognesi's expense, in which event the parties shall reasonably cooperate with each other subject, however, to Amedica's ultimate control of the defense. With respect to any Action relating solely to the payment of money damages, Amedica shall have the sole right to defend, settle, or otherwise dispose of such claim on such terms as Amedica, in its sole discretion, shall deem appropriate; provided, that Amedica shall provide reasonable evidence of its ability to pay any damages claimed. If the Action involves any claim in which Bolognesi would become subject to injunctive relief or to other equitable relief, or Bolognesi's business would be adversely affected in any manner, Amedica shall settle that claim only upon the written consent of Bolognesi, which shall not be unreasonably withheld.

15. Indemnification by Bolognesi.

Except to the extent that any such claims arise through the wrongful act or neglect of Amedica, Bolognesi will indemnify and hold Amedica harmless from any and all claims, costs, judgments and expenses arising from any breach by Bolognesi of any provision of this Agreement.

16. General.

a. Notices. All notices required or permitted to be given to a party hereunder shall be mailed by certified mail or registered mail, postage prepaid, to that party's address set forth on the signature page of this Agreement (or to such other address specified in writing).

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b. Default. If either party defaults upon any of the covenants or provisions herein, the defaulting party shall pay all costs and attorneys' fees incurred by the other party in enforcing its rights arising hereunder.

c. Governing Law and Venue. This Agreement shall be interpreted, performed and enforced according to the laws of Utah. Venue for any action hereof shall lie with the Third Judicial District Court of the State of Utah for the United States District Court for the District of Utah, Central Division.

d. Unenforceable Provision. If any provision of this Agreement is deemed unenforceable by any court of competent jurisdiction, the remaining provisions shall nonetheless be enforceable according to their terms. Further, if any provision is held to be over broad as written, such provision shall be deemed amended to narrow its application to the extent necessary to make the provision enforceable according to applicable law and shall be enforced as amended.

e. Assignment. Amedica may assign its rights and obligations hereunder to any person or entity that succeeds to all or substantially all of Amedica's business or that aspect of Amedica's business in which Bolognesi is principally involved. Bolognesi's rights and obligations under this Agreement may not be assigned by Bolognesi without the prior written consent of Amedica.

f. Benefit. All statements, representations, warranties, covenants and agreements in this Agreement shall be binding on the parties hereto and shall inure to the benefit of the respective successors and permitted assigns of each party hereto. Nothing in this Agreement shall be construed to create any rights or obligations except between the parties hereto, and no person or entity shall be regarded as a third-party beneficiary of this Agreement, other than any future parent, subsidiary or affiliate of Amedica.

g. Entire Agreement. This Agreement embodies the entire agreement and understanding between and among the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement of any kind not expressly set forth in this Agreement shall affect, or be used to interpret, change or restrict, the express terms and provisions of this Agreement.

h. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended only by written agreement executed by the parties hereto.

i. Waivers and Consents. The terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

j. Construction. The parties have participated equally in the formation of this Agreement and the language of this Agreement will not be presumptively construed against either party.

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k. Counter. This Agreement may be executed in one or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

l. Section Numbers and Headings. The Section and Subsection headings and numbers used herein are for purposes of convenience and shall not be considered in the interpretation of this Agreement.

IN WITNESS WHEREOF this 23rd day of January, 2006.

AMEDICA ADDRESS
AMEDICA CORP.
A DELAWARE CORPORATION

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

/s/ Eugene B. Jones
Eugene B. Jones
Vice President Finance & CFO

BOLOGNESI ADDRESS
Michael Bolognesi, M.D.
[*****]
[*****]

/s/ Michael Bolognesi
Michael Bolognesi, M.D.

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SCHEDULE A

Devices:

The Devices consist of the following, [*****];

1. [*****];
2. [*****]; and
3. [*****].

A-1

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SCHEDULE B

Prior Rights:

B-1

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**DEVELOPMENT AGREEMENT
BETWEEN AMEDICA CORPORATION AND STEVE LYONS, M.D.**

This Development Agreement (this "Agreement") is made and entered into as of the 20th day of February, 2006, (the "Effective Date"), by and between AMEDICA CORP., a Delaware corporation ("Amedica"), and Steve Lyons, M.D. ("Lyons").

RECITALS:

A. Amedica is in the business of designing, developing and selling various products and applications for medical and biomedical uses and from various materials, including the use of advanced ceramic materials;

B. Amedica desires to continue to encourage the conceiving, development, testing, providing education and dealing with novel devices for implant in or use with hip and knee reconstructive medical and surgical procedures ("Devices"), whether manufactured from ceramic materials or other materials;

C. Lyons is an orthopedic surgeon having knowledge and expertise relating to hip and knee reconstructive procedures; and

D. The parties desire to enter into arrangements between the parties to assist in the future development, approval, trial and clinical use of Devices.

NOW, THEREFORE, in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree and represent as follows:

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Development Agreement between Amedica Corp. and Steve Lyons, M.D.

1. Definitions.

For purposes of this Agreement, the following terms shall have the following definitions:

a. "Development Services" means the development and related services as requested by Amedica relating to the conceptualization, development, testing, approval and related matters involving the Devices more fully described in Section "b" below;

b. "Devices" are exclusively limited to those designated in Schedule "A" attached hereto and includes all ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials, whether or not patentable, including all rights to obtain, perfect or enforce any proprietary interests therein, pertaining to such devices as limited in Schedule A, which Lyons, whether alone or in concert with others, may conceive, reduce to practice or develop during the Term (or, if based on or related to any confidential or proprietary information of Amedica, within [*****] after the termination of this Agreement), alone or in conjunction with another, or others, whether during or out of regular business hours, and whether at the request or upon the suggestion of Amedica.

2. Cooperative Development Arrangements.

The parties intend that Lyons shall diligently perform the Development Services and provide reasonable input and expertise hereunder. The Development Services shall include, without limitation, the following:

a. Examining and reviewing the characteristics of the Devices and the nature of the materials with which the Devices are constructed;

Development Agreement between
Amedica Corp. and Steve Lyons, M.D.

- b. Providing expertise in ideas and testing pertaining to the Devices, and coordination with other Amedica personnel and third-parties related to such testing, as requested by Amedica;
- c. Providing guidance and assistance in the clinical details of the Devices;
- d. Assisting by providing the written portions of the patent applications pertaining to the Devices as determined by Amedica and approved by Lyons; and
- e. Assisting by providing the written portions of applications for regulatory approval for the Devices or surgical processes for their implantation or other use.

3. Term and Termination.

- a. The term ("Term") of this Agreement shall commence as of the Effective Date and shall continue until the later of:
 - (i) Ten (10) years from the date of product availability to marketplace hereof; or
 - (ii) The expiration of patent rights on the Devices, unless earlier terminated as provided hereunder.

b. Either party has the right to terminate this Agreement at any time upon thirty (30) days prior written notice to the other. Upon termination, Amedica's sole obligation to Lyons will be to pay any then outstanding unpaid fees, royalties or other compensation due Lyons under the terms of this contract and to reimburse Lyons for then outstanding reimbursable expenses. Royalty payments rightfully due Lyons will continue being paid by Amedica to Lyons or his beneficiary after the termination of this agreement. Further, Lyons will have the option to sell any and all Amedica stock options then owned by Lyons back to Amedica at the market value per share.

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4. Compensation for Assignment and Sale of Proprietary Rights.

a. As full consideration for the Development Services related solely to [*****] and any assignment of right in [*****] to Amedica pursuant to Section 9 hereof, Amedica shall pay Lyons the total of the following:

(i) Lyons shall, in the form of royalty or similar payments, payable on a monthly basis, receive [*****] of the Net After-Tax Profits for the [*****] from Amedica; provided, that this is subject to the provisions of Subsection 4(d) below.

b. As full consideration for the Development Services related solely to the [*****] and any assignment of right in [*****], Amedica pursuant to Section 9 hereof, shall pay Lyons the total of the following:

(i) Lyons shall, in the form of royalty or similar payments, payable on a monthly basis, receive a total of [*****] of the Net After-Tax Profits; provided, that this is subject to the provisions of Subsection 4(d) below.

c. As full consideration for the Development Services related solely to the [*****] and any assignment of right in [*****], Amedica pursuant to Section 9 hereof, shall pay Lyons the total of the following:

(i) Lyons shall, in the form of royalty or similar payments, payable on a monthly basis, receive a total of [*****] of the Net After-Tax Profits; provided, that this is subject to the provisions of Subsection 4(d) below.

Development Agreement between
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d. "Net After-Tax Profits" is defined as that portion of profits received by Amedica attributable to the sale of Devices, after deducting from all gross proceeds from such sales the costs and expenses attributable to the development, testing, marketing and sale of the Devices (but not including any Amedica overhead or expenses unrelated to the Devices), and less all sales, use, occupation or excise taxes and all income taxes applicable to income generated from the Devices.

e. Upon Lyons's death, or upon letters from two independent physicians that Lyons is disabled and unable to perform the nature of the Development Services hereunder, this Agreement shall terminate as to Lyons; provided, that Lyons or Lyons's designated beneficiary, shall continue to be entitled to receive the royalties as provided herein, applicable to all Devices completed for marketing prior to the date of death or disability.

f. Notwithstanding any provision herein to the contrary, income used for calculating royalties payable to Lyons hereunder shall not include any sales attributable to the use of any Devices by any hospital or surgical center where Lyons (or a partner, shareholder, employee or contracting physician) currently practices medicine. No provision under this Agreement, either overtly or covertly, directly or indirectly, requires or contemplates that Lyons make any recommendations to Lyons's patients or health care facilities with respect to Amedica's Devices or other products. There shall be no adjustment to the percentage of royalties, or the rate of any other compensation, resulting from the presence of or absence of, any recommendations of Amedica's Devices or other products to Lyons's patients or health care facilities by Lyons.

g. Amedica shall maintain separate accountings relating to the Devices. Lyons shall, at all times, have reasonable access to examine Amedica's books and records relating to the Devices.

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h. Lyons acknowledges that the payment provisions of this Section 4 represents the sole agreement between the parties with regard to Lyons's compensation for all Development Services and any assignment of rights to the Devices; and Amedica shall not be obligated to make, or otherwise be liable for, any additional payment of compensation or reimbursement of expenses with regard to Development Services or the Devices or other similar type payment. It is the parties' intent that this Agreement provide for the "sale or exchange of a capital asset" by Lyons to Amedica under Internal Revenue Code Section 1235 entitled "Sale or Exchange of Patents," and that all payments made to Lyons hereunder shall be taxed as long-term capital gains. Nothing in this Agreement to the contrary shall imply that the parties intend that the payments to Lyons hereunder shall be for anything other than the transfer of all proprietary rights that Lyons may have in the Devices. Amedica is making no warranties or representations, however, as to ultimate taxability of the payments to Lyons hereunder.

5. Exclusivity.

Amedica acknowledges that Lyons has other professional business and investment dealings in addition to his responsibilities under this Agreement and that Lyons will not be required to devote his time exclusively to his responsibilities hereunder. Notwithstanding any provision herein to the contrary, Lyons agrees that during the Term, Amedica shall have the exclusive rights to the Devices.

6. Confidentiality.

a. Both during the Term and following termination of this Agreement for any reason, except as necessary for the performance of the Development Services hereunder, Lyons shall not, at any time or in any manner, directly or indirectly, use, divulge, disclose or

Development Agreement between
Amedica Corp. and Steve Lyons, M.D.

communicate to any third-person or entity any information that was disclosed to or developed by Lyons during the course of performing the Development Services and which is not generally available to the public, including, without limiting the generality of the foregoing: information regarding matters affecting or relating to Amedica's business or its Devices; the nature of Amedica's properties or products, whether developed or under development; the identity of Amedica's customers; prices which Amedica obtains or has obtained with respect to its products or services; information as to Amedica's discussions, negotiations and/or dealings with actual or potential third-party buyers, investors, licensees or co-venturers; Amedica's costs, overhead or profit margin; or Amedica's operational methods or its business plans and processes. All material as such will be labeled "confidential".

b. Records; Promptly following termination of this Agreement, Lyons shall deliver to Amedica any and all property of Amedica which may be in his possession including products, materials, memoranda, notes, records, reports, writings, drawings, diskettes, models and other materials or other documents or photocopies of the same in any tangible form whatsoever constituting confidential or proprietary information of Amedica, and any of the foregoing in intangible form.

7. Covenant Not to Compete.

a. Certain Acknowledgments and Agreements. Lyons recognizes and acknowledges the competitive and proprietary nature of Amedica's business operations. Lyons acknowledges and agrees that a business will be deemed competitive with Amedica if it engages in a line of business in which it develops, manufactures or sells any products provided or offered by Amedica or any similar ceramic products to those defined in Schedule "A".

b. Lyons agrees that during the Term and for an additional [*****]

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Development Agreement between
Amedica Corp. and Steve Lyons, M.D.

after termination of this Agreement (which period shall be tolled during the period of any violation or breach of any of the provisions hereof and for a period of [*****] thereafter), whether such termination is voluntary or involuntary, Lyons shall not:

(i) For his benefit, or on behalf of any other person or entity, directly or indirectly, as principal, agent, stockholder, employee, consultant, representative or in any other capacity, own, manage, operate or control, or be concerned, connected or employed by, or otherwise associate in any manner with, engage in or have a financial interest in any Competitive Business dealing, manufacturing or having an interest in the devices listed in Schedule "A" anywhere in the continental United States of America (the "Restricted Territory"), except that nothing contained herein shall preclude Lyons from purchasing or owning securities of any such business if such securities are publicly traded, and provided that his holdings do not exceed one percent (1%) of the issued and outstanding securities of any class of securities of such business; or

(ii) Either individually or on behalf of or through any third party, solicit, divert or appropriate or attempt to solicit, divert or appropriate, any known customers or patrons of Amedica; or

(iii) Either individually or on behalf of or through any third party, directly or indirectly, solicit, entice or persuade or attempt to solicit, entice or persuade any other employees of or consultants to Amedica or any present or future parent, subsidiary or affiliate of Amedica to leave the services of Amedica or any such parent, subsidiary or affiliate for any reason.

c. Reasonableness of Restrictions. Lyons further recognizes and acknowledges that:

(i) The restrictions in this Section 7 are reasonable in relation to the skills which represent his principal salable asset both to Amedica and to any prospective employers; and

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(ii) The geographical scope of the provisions of this Section 7 is reasonable, legitimate and fair to Lyons in light of Amedica's need to market its services and sell its products worldwide in order to have a sufficient customer base to make Amedica's business profitable and in light of the limited restrictions on the type of employment prohibited herein compared to the types of employment for which Lyons is qualified to earn his livelihood.

d. Survival of Acknowledgments and Agreements. The acknowledgments and agreements set forth in this Section 7 shall survive the expiration or termination of this Agreement.

8. Ownership of Ideas, Copyrights and Patents.

a. Disclosure of Devices. Lyons agrees that he will promptly disclose all Devices to Amedica and that he will not publish any Devices, or any information with regard thereto, without the prior written consent of Amedica.

b. Property of Amedica. Amedica shall have the sole and exclusive right, even as to Lyons, to prepare, file, prosecute, obtain and maintain any and all patents and patent applications claiming any Devices. All Devices shall be the sole and exclusive property of Amedica and, subject to payment pursuant to the provisions of Section 3 hereof, Lyons hereby assigns to Amedica all of his right, title and interest in and to all of the Devices unless Amedica fails to commence the manufacture, marketing or distribution of the Devices within [*****] of development. Lyons further agrees to use his best efforts to ensure that no Devices will violate or infringe upon any right, patent, copyright, trademark or right of privacy, or constitute libel or slander against or violate any other rights of any person, firm or corporation.

c. Prior Rights. Lyons has attached hereto as Schedule "B"

(i) A list of all proprietary concepts and inventions in which he has any right, title, or interest as of the date of his execution of this Agreement ("Prior Rights"); and

(ii) A list of all Prior Rights made, conceived, or developed, in whole or in part, by Lyons prior to the date of his execution of this Agreement, and Lyons represents that Schedule "B" is a complete and accurate list of all Prior rights.

d. Cooperation. Lyons hereby agrees to willfully cooperate with Amedica, its attorneys and agents in the preparation and filing of all papers and other documents as may be required to perfect Amedica's rights in and to any Devices, including, but not limited to, performing all acts deemed necessary or desirable by Amedica (both during the Term and for a period of [*****] after expiration of this Agreement) and joining in any proceeding to obtain letters patent, copyrights, trademarks or other legal rights of the United States of America and of any and all other countries to Devices; provided, that, Amedica will bear the expense of all such proceedings, Lyons hereby agrees that any patent or other legal right covering any Device issued to Lyons personally, shall be assigned by Lyons to Amedica without charge by Lyons, except as specifically provided under Section 3 hereof.

e. Works Made For Hire. Without limiting the foregoing, Lyons further acknowledges that all original works of authorship made by Lyons after the execution of this agreement, whether alone or jointly with others in the performance of the Development Services and which are protectable by copyright are "works made for hire" within the meaning of the United States Copyright Act, 17 U.S.C. § 101, as amended, the copyright of which shall be owned solely, completely and exclusively by Amedica. If any Device is considered to be work

not included in the categories of work covered by the United States Copyright Act, 17 U.S.C. § 101, as amended, such work shall be owned solely by, or hereby assigned or transferred completely and exclusively to Amedica.

9. Representations and Warranties Regarding Prior Work and Legal Obligations.

a. Lyons hereby represents and warrants that he has no commitments or obligations with any prior employer or any other person or entity that would restrict his ability to perform the Development Services, or is inconsistent with this Agreement and Lyons hereby agrees to indemnify and hold Amedica harmless against loss, damage, liability or expense arising from any claim based upon circumstances alleged to be inconsistent with such representation and warranty.

b. Lyons represents that he has been advised by Amedica that at no time should he divulge to, or use for the benefit of, Amedica any trade secret or confidential or proprietary information of any previous employer. Lyons acknowledges that he has not divulged or used any such information for the benefit of Amedica.

c. Lyons represents that he has not and will not misappropriate any invention that he maintained any part in creating while working for any former employer.

d. Lyons acknowledges that Amedica is basing important business decisions on these representations, and affirms that all of the statements included herein are true.

10. Equitable Remedies.

Lyons acknowledges that the breach of the provisions of Sections 6, 7, 8 and 9 above shall constitute irreparable damage to Amedica and, accordingly, Amedica may, in addition to all other available remedies under law and equity, obtain injunctive relief upon an alleged violation of such Sections pending resolution on the merits of any claims raised by Amedica hereunder.

11. Stock Option Arrangements.

As further consideration hereunder, the parties agree in good faith to negotiate an agreement granting Lyons certain rights to obtain options for the purchase of Amedica stock. The nature, amount and terms of such options shall be agreed upon by the parties in good-faith as soon as reasonably possible.

12. Development Agreement Only.

This Agreement constitutes a development agreement only. Nothing herein is intended, nor shall it be construed, to create any employer/employee arrangement, partnership arrangement or other relationship between or among the parties except as expressly provided herein; and nothing herein is intended to grant to either party any right or interest in or to the assets, business or interests of the other party, nor the right to bind the other party except as expressly herein provided.

13. Compliance with Laws and Regulations.

The parties, at all times, shall interpret and apply the provisions of this Agreement strictly in accordance with all applicable laws and regulations, including, but not limited to, the so-called Stark federal anti-referral law and all Medicare and Medicaid laws and regulations. If any provision of this Agreement is found, by any applicable court or government agency, to be in conflict with any applicable law or regulation, the provisions of such law or regulation shall govern; and the interpretation and operation under this Agreement shall be modified accordingly.

14. Indemnification by Amedica.

a. Amedica will indemnify and hold Lyons harmless from any and all claims, costs, judgments and expenses involving:

(i) Any claim that any Device infringes or interferes with any patent or other proprietary claim of any third-party;

(ii) To the extent claimed or proven to be solely due to Device design or manufacturing defect (including reasonable attorneys' fees) of whatever sort based on claims of product design or manufacturing defects whether sounding in negligence, strict liability at law, contract or statutory violation; and

(iii) Any breach by Amedica of any provision of this Agreement.

b. Any indemnification provided by Amedica hereunder shall not apply to any claim insofar as that claims:

(i) Relates to a professional medical liability or malpractice claim brought against Lyons for professional acts or omissions in connection with the medical care or treatment associated with a Device;

(ii) Arises from any breach by Lyons of any provision of this Agreement; or

(iii) Arises from any knowing submission by Lyons of false data to Amedica or from any other intentional wrongdoing by Lyons.

c. Promptly upon Lyons's receipt of information concerning the commencement of any third-party claim, demand, action, suit or proceeding (collectively, "Action") which is the subject of indemnification hereunder, Lyons shall notify Amedica in writing of the commencement of the Action. Any failure to provide such prompt notice shall relieve Amedica of its indemnification obligations to the extent Amedica has been materially prejudiced by such failure. Amedica may select counsel at its own expense and control the

defense of such indemnity claim and Lyons may participate jointly with Amedica in such defense, at Lyons's expense, in which event the parties shall reasonably cooperate with each other subject, however, to Amedica's ultimate control of the defense. With respect to any Action relating solely to the payment of money damages, Amedica shall have the sole right to defend, settle, or otherwise dispose of such claim on such terms as Amedica, in its sole discretion, shall deem appropriate; provided, that Amedica shall provide reasonable evidence of its ability to pay any damages claimed. If the Action involves any claim in which Lyons would become subject to injunctive relief or to other equitable relief, or Lyons's business would be adversely affected in any manner, Amedica shall settle that claim only upon the written consent of Lyons, which shall not be unreasonably withheld.

15. Indemnification by Lyons.

Except to the extent that any such claims arise through the wrongful act or neglect of Amedica, Lyons will indemnify and hold Amedica harmless from any and all claims, costs, judgments and expenses arising from any breach by Lyons of any provision of this Agreement.

16. General.

a. Notices. All notices required or permitted to be given to a party hereunder shall be mailed by certified mail or registered mail, postage prepaid, to that party's address set forth on the signature page of this Agreement (or to such other address specified in writing).

b. Default. If either party defaults upon any of the covenants or provisions herein, the defaulting party shall pay all costs and attorneys' fees incurred by the other party in enforcing its rights arising hereunder.

c. Governing Law and Venue. This Agreement shall be interpreted, performed and enforced according to the laws of Utah. Venue for any action hereof shall lie with the Third Judicial District Court of the State of Utah for the United States District Court for the District of Utah, Central Division.

d. Unenforceable Provision. If any provision of this Agreement is deemed unenforceable by any court of competent jurisdiction, the remaining provisions shall nonetheless be enforceable according to their terms. Further, if any provision is held to be over broad as written, such provision shall be deemed amended to narrow its application to the extent necessary to make the provision enforceable according to applicable law and shall be enforced as amended.

e. Assignment. Amedica may assign its rights and obligations hereunder to any person or entity that succeeds to all or substantially all of Amedica's business or that aspect of Amedica's business in which Lyons is principally involved. Lyons's rights and obligations under this Agreement may not be assigned by Lyons without the prior written consent of Amedica.

f. Benefit. All statements, representations, warranties, covenants and agreements in this Agreement shall be binding on the parties hereto and shall inure to the benefit of the respective successors and permitted assigns of each party hereto. Nothing in this Agreement shall be construed to create any rights or obligations except between the parties hereto, and no person or entity shall be regarded as a third-party beneficiary of this Agreement, other than any future parent, subsidiary or affiliate of Amedica.

g. Entire Agreement. This Agreement embodies the entire agreement and understanding between and among the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement of any kind not expressly set forth in this Agreement shall affect, or be used to interpret, change or restrict, the express terms and provisions of this Agreement.

h. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended only by written agreement executed by the parties hereto.

i. Waivers and Consents. The terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

j. Construction. The parties have participated equally in the formation of this Agreement and the language of this Agreement will not be presumptively construed against either party.

k. Counter. This Agreement may be executed in one or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

l. Section Numbers and Headings. The Section and Subsection headings and numbers used herein are for purposes of convenience and shall not be considered in the interpretation of this Agreement.

Development Agreement between
Amedica Corp. and Steve Lyons, M.D.

IN WITNESS WHEREOF this 20th day of February, 2006.

AMEDICA ADDRESS:
AMEDICA CORP.
A DELAWARE CORPORATION
Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

By: /s/ Eugene B. Jones
Eugene B. Jones
Vice-President, Finance & Chief Financial Officer

LYONS ADDRESS:
Steve Lyons, M.D.
[*****]
[*****]

By: /s/ Steve Lyons, M.D.
Steve Lyons, M.D.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

SCHEDULE A

Devices:

The Devices consist of the following, [*****]:

1. [*****];
2. [*****]; and
3. [*****].

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SCHEDULE B

Prior Rights:

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DEVELOPMENT AGREEMENT

This Development Agreement (this "Agreement") is made and entered into as of the 31st day of May, 2006 (the "Effective Date"), by and between AMEDICA CORP., a Delaware corporation ("Amedica"), and Harvinder S. Sandhu, M.D. ("Sandhu").

RECITALS:

A. Amedica is in the business of designing, developing and selling various products and applications for medical and biomedical uses that are made from various materials, including advanced ceramic materials.

B. Amedica desires to continue to encourage the development, testing and clinical training for novel Devices (as defined herein) for implant in or use with the spine in medical and surgical procedures, whether manufactured from ceramic materials or other materials.

C. Sandhu offers clinical knowledge and experience relating to the spine.

D. The parties desire to enter into an agreement to assist in the future development, approval, trial and clinical use of Devices.

E. Sandhu desires the right to assign to an entity controlled by Sandhu the rights and obligations of Sandhu hereunder.

NOW, THEREFORE, for and in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree and represent as follows:

1. **Definitions.** For purposes of this Agreement, the following terms shall have the following definitions:

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a. "Development Services" means the development and related services as requested by Amedica relating to the conceptualization, development, testing, approval and related matters involving the Devices more fully described in Section 2, below.

b. "Devices" means all ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials, whether or not patentable, including all rights to obtain, perfect or enforce any proprietary interests therein, in the Field of Interest, which Sandhu, whether alone or in concert with others, may conceive, reduce to practice or develop during the Term (or, if based on or related to any confidential or proprietary information of Amedica, within [*****] after the termination of this Agreement), alone or in conjunction with another, or others, whether during or out of regular business hours, and whether at the request or upon the suggestion of Amedica, or otherwise. These Devices include but are not limited to those items more fully identified on Schedule A attached hereto.

c. "Field of Interest" means the development, testing and commercializing of biomedical or surgical stabilization devices, covered by current Amedica patent applications and further Amedica developments, including ceramic materials or metallic materials for static, transpedicular lumbar stabilization and for static anterior cervical stabilization. Amedica may expand or otherwise change the definition of its Field of Interest at any time, as long as this expansion continues to be related solely to ceramic materials, which new definition will be binding upon Sandhu ten (10) days after written notice to Sandhu thereof.

2. Development Arrangements. The parties intend that Sandhu shall diligently perform the Development Services which shall include, without limitation, the following

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-
- a. Examining and reviewing the characteristics of the Devices and the nature of the materials with which the Devices are constructed.
 - b. Offering experience on ideas and testing pertaining to the Devices, and coordinating with other Amedica personnel and third parties related to such testing, as requested by Amedica.
 - c. Providing guidance and assistance in the clinical details of the Devices.
 - d. Assisting in the filing of provisional patents and other patents pertaining to the Devices as determined by Amedica.
 - e. Assisting in applying for or otherwise seeking regulatory approval for the Devices or surgical processes for their implantation or other use.

3. Performance by Entity. Amedica agrees and consents that Sandhu may assign to an entity Sandhu's rights and obligations hereunder, provided that:

a. The entity shall be under Sandhu's control; and the entity shall provide for the entity's services to be performed by Sandhu, except as otherwise agreed to by Amedica, which consent shall not be unreasonably withheld.

b. Sandhu shall continue to be personally subject to and bound by the provisions of Sections 7 through 11, inclusive, of this Agreement.

4. Term and Termination.

a. The term (the "Term") of this Agreement shall commence as of the Effective Date and shall continue until the later of: (i) ten (10) years from the date hereof, or (ii) the expiration of the final remaining patent rights on the last of the Devices, unless earlier terminated as provided hereunder.

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b. Either party has the right to terminate this Agreement at any time upon thirty (30) days' prior written notice thereof to the other party. If either party terminates this Agreement pursuant to this subsection 4(b), Amedica shall be obligated to continue to pay royalty payments that are earned for Devices resulting from Sandhu's Development Services as set forth in Section 5 below.

5. Compensation for Assignment and Sale Proprietary Rights. As full consideration for the Development Services and any valuable assignment of rights in or related to Devices to Amedica pursuant to Section 8 hereof, Amedica shall pay Sandhu the total of the following:

a. Sandhu shall, in the form of royalty or similar payments, receive [*****] of the Net After-Tax Profits for the [*****] and [*****] of the Net After-Tax Profits for the [*****]; provided, that this is subject to the provisions of Subsections 5(b) and 5(c) below. "Net After-Tax Profits" is defined as that portion of profits received by Amedica attributable to sale of Devices, after deducting from all gross proceeds from such sales the costs and expenses attributable to the development, testing, marketing and sale of the Devices (but not including any Amedica overhead or expenses unrelated to the Devices), and less all sales, use, occupation or excise taxes and all income taxes applicable to income generated from the Devices.

b. Upon Sandhu's death, or upon letters from two independent physicians that Sandhu is permanently disabled and unable to perform the nature of the Development Services hereunder, this Agreement shall terminate as to Sandhu; provided, that Sandhu (or Sandhu's surviving spouse or estate), or Sandhu's entity, as applicable, shall continue to be entitled to receive the royalties as provided herein.

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c. Notwithstanding any provision herein to the contrary, income used for calculating royalties payable to Sandhu hereunder shall not include any sales attributable to the use of any Devices by any hospital or surgical center where Sandhu, or any entity controlled by Sandhu currently practices medicine or contracts for services.

No provision under this Agreement, either overtly or covertly, directly or indirectly, requires or contemplates that Sandhu make any recommendations to Sandhu's patients or health care facilities with respect to Amedica's Devices or other products. There shall be no adjustment to the percentage of royalties, or the rate of any other compensation, if any, resulting from the presence of or absence of, any recommendations of Amedica's Devices or other products to Sandhu's patients or health care facilities by Sandhu.

If Sandhu is paid any share of Net After Tax Profits inconsistent with the provisions of this Subsection 5(c), upon advance written notice to Sandhu, Amedica will offset such improperly paid amount from any future payment owing to Sandhu.

d. Amedica shall maintain separate and sufficient accountings and records relating to the Devices to enable the payments payable hereunder to be determined and verified. Sandhu shall, at all times, have the right, during normal business hours and upon reasonable notice to Amedica, to audit on a confidential basis the relevant books and records of Amedica to verify that the payments due and owing Sandhu pursuant to subsection 5(a) have been accurately determined. The costs of such audits shall be borne by Sandhu unless he has been underpaid by [*****]; in such case, costs of the audit shall be paid by Amedica. Payment of any amount determined to be owing to Sandhu will be made to him in accordance with the provisions of subsection 4(b) above.

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e. Without limiting the provisions of Subsection 4(b), the parties acknowledge that the continued payment of, and the continuing obligation to pay, the royalties payable hereunder is not dependent on the continuing performance of the Development Services, the ongoing Term of this Agreement, or any other contingency or condition.

f. Sandhu acknowledges that the payment provisions of this Section 5 represent the sole agreement between the parties with regard to Sandhu's compensation for all Development Services and any assignment of rights to the Devices; and Amedica shall not be obligated to make, or otherwise be liable for, any additional payment of compensation or reimbursement of expenses with regard to Development Services or the Devices or other similar type payment. It is the parties' intent that this Agreement provide for the "sale or exchange of a capital asset" by Sandhu to Amedica under Internal Revenue Code Section 1235 entitled "Sale or Exchange of Patents," and that all payments made to Sandhu hereunder shall be taxed as long-term capital gains. Nothing in this Agreement to the contrary shall imply that the parties intend that the payments to Sandhu hereunder shall be for anything other than the transfer of all proprietary rights that Sandhu may have in the Devices. Amedica is making no warranties or representations, however, as to ultimate taxability of the payments to Sandhu hereunder.

6. Exclusivity. Amedica acknowledges that Sandhu, and any entities which may currently or in the future be controlled by Sandhu, have other professional business and investment dealings in addition to his responsibilities under this Agreement and that Sandhu will not be required to devote his time exclusively to his responsibilities hereunder, either directly or indirectly. Notwithstanding any provision herein to the contrary, Sandhu agrees that during the Term, as between Sandhu and Amedica, Amedica shall possess the exclusive ownership of the Devices. Amedica acknowledges that this is a non-exclusive agreement, and nothing herein may

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be construed to prohibit either Amedica or Sandhu from entering into similar contractual relationships with other parties, or from engaging or participating in any other venture, unrelated to the Devices. Without limiting the foregoing, Amedica recognizes and acknowledges that Sandhu (either directly or through his entities) actively performs product development services for and on other parties in the area of orthopedic surgery and related fields; therefore, Sandhu may provide consulting, product development, and other services, not related to the Devices, for and on behalf of persons or entities that may compete with Amedica or that develop, manufacture, or sell products or technologies that are similar in function or design (excluding the Field of Interest, which involves solely ceramic materials) to those developed or sold by Amedica.

7. Confidentiality.

a. Both during the Term and following termination of this Agreement for any reason, except as necessary for the performance of the Development Services hereunder, Sandhu shall not, at any time or in any manner, directly or indirectly, use, divulge, disclose or communicate to any third-person or entity any information that was disclosed to or developed by Sandhu during the course of performing the Development Services and which is not (i) information that Sandhu was aware of prior to the term of this Agreement, (ii) information that Sandhu becomes aware of through a source other than Amedica, (iii) information that is available to the general public through a prior disclosure, provided that Sandhu did not commit such prior disclosure in violation of this Agreement, or (iv) the Retained Intellectual Property (as defined herein). Also without limiting the foregoing, Sandhu may disclose the existence and general nature of this Agreement and the fact that it pertains to the Development Services and the Devices. Subject to the foregoing exceptions, the confidential information described herein shall

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include information regarding matters affecting or relating to Amedica's business or its Devices; the nature of Amedica's properties or products, whether developed or under development; the identity of Amedica's customers; prices which Amedica obtains or has obtained with respect to its products or services; information as to Amedica's discussions, negotiations and/or dealings with actual or potential third-party buyers, investors, licensees or co-venturers; Amedica's costs, overhead or profit margin; or Amedica's operational methods or its business plans and processes.

b. Promptly following termination of this Agreement, Sandhu shall deliver to Amedica any and all property of Amedica which may be in his possession including products, materials, memoranda, notes, records, reports, writings, drawings, diskettes, models and other materials or other documents or photocopies of the same in any tangible form whatsoever constituting confidential or proprietary information of Amedica, and any of the foregoing in intangible form.

8. Covenant Not to Compete.

a. Sandhu recognizes and acknowledges the competitive and proprietary nature of Amedica's Field of Interest. Sandhu acknowledges and agrees that a business will be deemed competitive with Amedica if it develops, manufactures or sells any products within the Field of Interest and Sandhu has participated in the creation, research and/or testing of those such products (such business to be referred to as a "Competitive Business").

b. Sandhu agrees that during the Term and for an additional [*****] after termination of this Agreement (which period shall be tolled during the period of any violation or breach of any of the provisions of this Section 8 and for a period of [*****] thereafter), Sandhu shall not:

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(i) for his benefit, or on behalf of any other person or entity, directly or indirectly, as principal, agent, stockholder, employee, consultant, representative or in any other capacity, own, manage, operate or control, or be concerned, connected or employed by, or otherwise associate in any manner with, engage in or have a financial interest in any Competitive Business anywhere in the continental United States of America (the "Restricted Territory"), except that nothing contained herein shall preclude Sandhu from purchasing or owning securities of any such business if such securities are publicly traded, and provided that his holdings do not exceed one percent (1%) of the issued and outstanding securities of any class of securities of such business; or

(ii) either individually or on behalf of or through any third party, directly or indirectly, solicit, entice or persuade or attempt to solicit, entice or persuade any other employees of or consultants to Amedica or any present or future parent, subsidiary or affiliate of Amedica to leave the services of Amedica or any such parent, subsidiary or affiliate for any reason.

c. Sandhu further recognizes and acknowledges that: (i) the restrictions in this Section 8 are reasonable in relation to the skills which represent his principal salable asset both to Amedica and to any prospective employers, and (ii) the geographical scope of the provisions of this Section 8 is reasonable, legitimate and fair to Sandhu in light of Amedica's need to market its services and sell its products worldwide in order to have a sufficient customer base to make Amedica's business profitable and in light of the limited restrictions on the type of employment prohibited herein compared to the types of employment for which Sandhu is qualified to earn his livelihood.

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d. Notwithstanding anything herein to the contrary, nothing in this Section 8 shall apply with regard to any services performed by Sandhu prior to the Term hereof (and which services do not involve any activities by Sandhu within the Field of Interest continuing from and after the date of this Agreement) with regard to any devices, ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials of any kind (the "Prior Work"). Accordingly, nothing herein shall prohibit Sandhu's receipt of any compensation of any kind (e.g., royalties) in consideration for such Prior Work.

e. The acknowledgments and agreements set forth in this Section 8 shall survive the termination of Sandhu's performance of the Development Services for any reason, for the time period set forth herein.

9. Ownership of Ideas, Copyrights and Patents.

a. Sandhu agrees that he will take reasonable steps to promptly disclose all Devices to Amedica and that he will not publish any Devices or any information with regard thereto, without the prior written consent of Amedica, which will not be unreasonably withheld.

b. As between Sandhu and Amedica, Amedica shall have the sole and exclusive right, even as to Sandhu, to prepare, file, prosecute, obtain and maintain any and all patents and patent applications claiming any Devices. All Devices shall be the sole and exclusive property of Amedica and, subject to payment pursuant to the provisions of Section 3 hereof, and the waivers of any and all representations and warranties concerning the Devices as set forth in Subsection 10(e) below, Sandhu hereby assigns to Amedica all of his right, title and - interest in and to all of the Devices, including the intellectual property therein, which may include trade secrets, inventions, discoveries, or improvements, whether or not registerable or patentable, that

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are conceived, whether alone or jointly with others, during the Term of this Agreement that are a direct and specific result of the Development Services (collectively, the "Assigned Intellectual Property"). This assignment does not include any such intellectual property that pertains : to (i) orthopedic surgical principles in general (including products that may pertain to the same pathological conditions in the same anatomical locations that are relevant to the Devices; to (ii) other products or technologies used in orthopedic surgery; (iii) to proprietary concepts and inventions in which Sandhu has any right, title, or interest as of the date of the execution of this Agreement (collectively "Prior Rights"), or (iv) to any other concept, know-how, discovery, or other intellectual property that is not within the definition of the Assigned Intellectual Property (all of the foregoing collectively, the "Retained Intellectual Property"). Sandhu shall not be restricted from assigning, licensing, or otherwise utilizing the Retained Intellectual Property in any manner.

c. Sandhu hereby agrees to reasonably cooperate with Amedica, its attorneys and agents in the preparation and filing of all papers and other documents as may be required to perfect Amedica's rights in and to any Devices, including, but not limited to, performing all acts reasonably deemed necessary or desirable by Amedica (both during the Term and for a period of [*****] after expiration of this Agreement) and joining in any proceeding to obtain letters patent, copyrights, trademarks or other legal rights of the United States of America and of any and all other countries to Devices; provided, that, Amedica will bear the expense of all such proceedings. Sandhu hereby agrees that any patent or other legal right covering any Assigned Intellectual Property issued to Sandhu, shall be assigned by Sandhu to Amedica without charge.

d. Without limiting the foregoing, Sandhu further acknowledges that all original works of authorship made by such Sandhu, within the Field of Interest, by Sandhu that

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Sandhu has first conceived and first reduced to writing, whether alone or jointly with others during the Term of this Agreement that are a direct and specific result of the Development Services and that are protectable by copyright are “works made for hire” within the meaning of the United States Copyright Act, 17 U.S.C. § 101, as amended, the copyright of which shall be owned solely, completely and exclusively by Amedica. If any such work is not considered to be a work made for hire covered by the United States Copyright Act, 17 U.S.C. § 101, as amended, such work shall be owned solely by, or hereby assigned or transferred completely and exclusively to, Amedica. Any and all works of authorship described in this Subsection shall be included within the definition of Assigned Intellectual Property.

e. Notwithstanding anything herein to the contrary, Sandhu expressly disclaims, and Amedica expressly waives, any and all representations and warranties in regard to or concerning the Assigned Intellectual Property, the Development Services and the Devices. Without limiting the foregoing, the parties agree that Sandhu does not represent or warrant that any portion of the Assigned Intellectual Property is valid, enforceable, registerable, or original, that it will be free from claims of infringement, interference, or unlawful use of proprietary information of any third party, or that it does not infringe upon the intellectual property rights of any other party. Furthermore, Sandhu expressly disclaims, and Amedica expressly waives, the warranties of merchantability and fitness for a particular purpose with regard to the Assigned Intellectual Property, the Development Services and the Devices, and any and all representations and warranties that the Assigned Intellectual Property and the Devices will perform or function in any particular manner, with any particular results, or free from defects.

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10. Representations and Warranties Regarding Prior Work and Legal Obligations.

a. Sandhu hereby represents and warrants that he has no commitments or obligations with any prior employer or any other person or entity that would restrict his ability to perform the Development Services.

b. Sandhu represents that he has been advised by Amedica that at no time should he divulge to, or use for the benefit of, Amedica any trade secret or confidential or proprietary information of any previous employer. Sandhu acknowledges that he has not divulged or used any such information for the benefit of Amedica.

c. Sandhu acknowledges that Amedica is basing important business decisions on these representations, and affirms that all of the statements included herein are true.

11. Equitable Remedies. Sandhu acknowledges that the breach of the provisions of Sections 7, 8, 9 and 10 above shall constitute irreparable damage to Amedica and, accordingly, Amedica may, in addition to all other available remedies under law and equity, obtain injunctive relief upon an alleged violation of such Sections pending resolution on the merits of any claims raised by Amedica hereunder.

12. Stock Option Arrangements. As further consideration hereunder, the parties agree in good faith to negotiate an agreement granting Sandhu, or Sandhu's designate, certain rights to obtain options for the purchase of Amedica stock. The nature, amount and terms of such options shall be agreed upon by the parties in good-faith as soon as reasonably possible.

13. Development Agreement Only. This Agreement constitutes a development agreement only. Nothing herein is intended, nor shall it be construed, to create any employer/employee arrangement, partnership arrangement or other relationship between or among the parties except as expressly provided herein; and nothing herein is intended to grant to either party any right or interest in or to the assets, business or interests of the other party, nor the right to bind the other party except as expressly herein provided.

14. Compliance with Laws and Regulations. The parties, at all times, shall interpret and apply the provisions of this Agreement strictly in accordance with all applicable laws and regulations, including, but not limited to all Medicare and Medicaid laws and regulations.

a. If any provision of this Agreement is found, by any applicable court or government agency, to be in conflict with any applicable law or regulation, the provisions of such law or regulation shall govern; and the interpretation and operation under this Agreement shall be modified accordingly.

b. The parties have no intent through this Agreement or otherwise to solicit, receive, offer, or pay any remuneration in return for recommending the use or utilization of any good or service payable under certain federal health programs, as such is prohibited by the statute at 42 U.S.C. 1320a-7b(b), nor do the parties have any other impermissible intent to violate any similar federal or state law that may apply with regard to any other health care reimbursement program. Sandhu is under no obligation whatsoever to utilize any products manufactured by Amedica, nor to recommend that such products are utilized by others. If any provision of this Agreement is determined by either party to present a possible violation of any such law, as supported by a written, reasoned opinion of competent legal counsel, the parties shall in good faith negotiate together to amend the terms of this Agreement in a manner that will alleviate any such possible violation while preserving the reasonable business (e.g., compensation) expectations of the parties.

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15. Indemnification by Amedica.

a. Amedica will indemnify and hold Sandhu harmless from any and all claims, costs, judgments and expenses (including reasonable attorneys fees) involving (i) any claim that any Device infringes or interferes with any patent or other proprietary claim of any third-party, and (ii) to the extent claimed or proven to be solely due to Device design or manufacturing defect of whatever sort based on claims of product design or manufacturing defects whether sounding in negligence, strict liability at law, contract or statutory violation, and (iii) any breach by Amedica of any provision of this Agreement.

b. Any indemnification provided by Amedica hereunder shall not apply to any claim insofar as that claim (i) relates to a professional medical liability or malpractice claim brought against Sandhu for professional acts or omissions in connection with the medical care or treatment associated with a Device; (ii) arises from any breach by Sandhu of any provision of this Agreement; or (iii) arises from any knowing submission by Sandhu of false data to Amedica or from any other intentional wrongdoing by Sandhu.

c. Promptly upon Sandhu's receipt of information concerning the commencement of any third-party claim, demand, action, suit or proceeding (collectively, "Action") which is the subject of indemnification hereunder, Sandhu shall notify Amedica in writing of the commencement of the Action. Any failure to provide such prompt notice shall relieve Amedica of its indemnification obligations to the extent Amedica has been materially prejudiced by such failure. Amedica may select counsel at its own expense and control the defense of such indemnity claim; and Sandhu may participate jointly with Amedica in such defense, at Sandhu's expense, in which event the parties shall reasonably cooperate with each other. Amedica will vigorously defend any such claim, and shall not settle any such claim or refrain from appealing any adverse ruling, judgment, or verdict without the advance written

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consent of Sandhu, which consent shall not be unreasonably withheld. With respect to any Action relating solely to the payment of money damages, Amedica shall have the sole right to defend, settle, or otherwise dispose of such claim on such terms as Amedica, in its sole discretion, shall deem appropriate; provided, that Amedica shall provide reasonable evidence of its ability to pay any damages claimed. If the Action involves any claim in which Sandhu would become subject to injunctive relief or to other equitable relief, or Sandhu's business would be adversely affected in any manner, Amedica shall settle that claim only upon the written consent of Sandhu, which shall not be unreasonably withheld.

16. Indemnification by Sandhu. Except to the extent that any such claims arise through the wrongful act or neglect of Amedica, Sandhu will indemnify and hold Amedica harmless from any and all claims, costs, judgments and expenses arising from any breach by Sandhu of any warranty, representation or affirmative obligation of Sandhu under this Agreement.

17. General.

a. Notices. All notices required or permitted to be given to a party hereunder shall be mailed by certified mail or registered mail, postage prepaid, to that party's address set forth on the signature page of this Agreement (or to such other address specified in writing).

b. Default. If either party defaults in any of the covenants or provisions herein, the defaulting party shall pay all costs and attorneys' fees incurred by the other party in enforcing its rights arising hereunder. Sandhu's counsel set forth below shall be provided with a copy of any notice given to Sandhu hereunder:

Peter J. Toren
Sidley Austin LLP
787 Seventh Avenue
New York, N.Y. 10019

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c. Governing Law and Venue. This Agreement shall be interpreted, performed and enforced according to the laws of Utah. Venue for any action hereof shall lie with the Third Judicial District Court of the State of Utah for the United States District Court for the District of Utah, Central Division.

d. Unenforceable Provision. If any provision of this Agreement is deemed unenforceable by any court of competent jurisdiction, the remaining provisions shall nonetheless be enforceable according to their terms. Further, if any provision is held to be over broad as written, such provision shall be deemed amended to narrow its application to the extent necessary to make the provision enforceable according to applicable law and shall be enforced as amended.

e. Assignment. Amedica may assign its rights and obligations hereunder to any person or entity that succeeds to all or substantially all of Amedica's business or that aspect of Amedica's business in which Sandhu is principally involved. Sandhu's rights and obligations under this Agreement may not be assigned by Sandhu without the prior written consent of Amedica except for the right to receive payments pursuant to Section 5 above.

f. Benefit. All statements, representations, warranties, covenants and agreements in this Agreement shall be binding on the parties hereto and shall inure to the benefit of the respective successors and permitted assigns of each party hereto. Nothing in this Agreement shall be construed to create any rights or obligations except between the parties hereto, and no person or entity shall be regarded as a third-party beneficiary of this Agreement, other than any future parent, subsidiary or affiliate of Amedica.

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g. Entire Agreement. This Agreement embodies the entire agreement and understanding between and among the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement of any kind not expressly set forth in this Agreement shall affect, or be used to interpret, change or restrict, the express terms and provisions of this Agreement.

h. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended only by written agreement executed by the parties hereto.

i. Waivers and Consents. The terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

j. Construction. The parties have participated equally in the formation of this Agreement and the language of this Agreement will not be presumptively construed against either party.

k. Counterparts. This Agreement may be executed in one or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

1. Section Numbers and Headings. The Section and Subsection headings and numbers used herein are for purposes of convenience and shall not be considered in the interpretation of this Agreement.

IN WITNESS WHEREOF this 31st day of May, 2006.

AMEDICA

Address:

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

Amedica Corp.
A Delaware Corporation

/s/ Eugene B. Jones

Eugene B. Jones
Vice President, Finance & CFO

SANDHU

Address:

Harvinder S. Sandhu, M.D.
[*****]
[*****]

/s/ Harvinder S. Sandhu, M.D.

Harvinder S. Sandhu, M.D.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

SCHEDULE A

Devices

The Devices consist of the following:

1. [*****]
2. [*****]

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DEVELOPMENT AGREEMENT

This Development Agreement (this "***Agreement***") is made and entered into as of the 29th day of December, 2006, by and between AMEDICA CORPORATION, a Delaware corporation ("***Amedica***"), and B. Sonny Bal, M.D. ("***Bal***").

RECITALS:

A. Amedica is in the business of designing, developing, manufacturing and selling various products and applications for medical and biomedical uses and from various materials, including the use of advanced ceramic materials;

B. Amedica desires to continue to encourage the conceiving, development, testing, providing education and dealing with novel devices for implant in or use with hip and knee reconstructive medical and surgical procedures, whether manufactured from ceramic materials or other materials;

C. Bal is an orthopedic surgeon having knowledge and expertise relating to hip and knee reconstructive procedures; and

D. Amedica and Bal desire to enter into arrangements between them for past and future development, approval, trial and clinical use of Devices (as defined below).

NOW, THEREFORE, in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto hereby agree and represent as follows:

1. Definitions.

For purposes of this Agreement, the following terms shall have the following respective meanings:

a. "***Development Services***" means the development and related services as requested by Amedica relating to the conceptualization, development, testing, approval and related matters involving the Devices more fully described in Section 1(b) hereof.

b. "***Devices***" are exclusively limited to those items (each a "Device") designed in Schedule A attached hereto, as the same may be amended by agreement of the parties hereto, and includes all ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials, whether or not patentable, including all rights to obtain, perfect or enforce any proprietary

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interests therein, pertaining to such items designated in said Schedule A hereto, which Bal, whether alone or in concert with others, may conceive, reduce to practice or develop during the Term (or, if based on or related to any confidential or proprietary information of Amedica, within [*****] after the termination of this Agreement), alone or in conjunction with another, or others, whether during or outside of regular business hours, and whether or not at the request or upon the suggestion of Amedica.

c. "*Net After-Tax Profits*" means that portion of profits received by Amedica attributable to the sale of Devices, after deducting from all gross proceeds from such sales the costs and expenses attributable to the development, testing, marketing and sale of the Devices (but not including any Amedica overhead or expenses unrelated to the Devices), and less all sales, use, occupation or excise taxes and all income taxes applicable to income generated from the Devices.

d. "*Effective Date*" means January 1, 2005.

2. Cooperative Development Arrangements.

The parties intend that Bal shall diligently perform the Development Services and provide reasonable input and expertise hereunder. The Development Services shall include, without limitation, the following:

a. Examining and reviewing the characteristics of the Devices and the nature of the materials with which the Devices are constructed;

b. Providing expertise in ideas and testing pertaining to the Devices, and coordination with other Amedica personnel and third-parties related to such testing, as requested by Amedica;

c. Providing guidance and assistance in the clinical details of the Devices;

d. Assisting by providing the written portions of the patent applications pertaining to the Devices as determined by Amedica and approved by Bal; and

e. Assisting by providing the written portions of applications for regulatory approval for the Devices or surgical processes for their implantation or other use.

3. Term and Termination.

a. Unless earlier terminated as provided in Section 3(b) hereof, the term of this Agreement ("*Term*") shall commence as of the Effective Date and shall continue until the later of:

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

(i) Ten (10) years from the date hereof; or

(ii) The expiration of patent rights, developed as a result of the performance of Development Services, on the Devices.

b. Either party has the right to terminate this Agreement at any time upon thirty (30) days prior written notice to the other. Upon termination, Subject to Section 16(k) hereof, Amedica's sole obligation to Bal will be to pay any then outstanding unpaid fees, royalties or other compensation due Bal under the terms of this Agreement and to reimburse Bal for then outstanding reimbursable expenses. Royalty payments rightfully due Bal will continue being paid by Amedica to Bal or his designated beneficiary after the termination of this Agreement.

4. Compensation for Assignment and Sale of Proprietary Rights.

a. As full consideration for the Development Services related solely to [*****] and any assignment of right or rights in Devices related to [*****] to Amedica pursuant to Section 8 hereof, Amedica shall pay Bal, in the form of royalty or similar payments, payable on a monthly basis, [*****] of the Net After-Tax Profits generated by sales of the [*****].

b. As full consideration for the Development Services related solely to the [*****] and any assignment of right or rights in Devices related to [*****] to Amedica pursuant to Section 8 hereof, Amedica shall pay Bal, in the form of royalty or similar payments, payable on a monthly basis, [*****] of the Net After-Tax Profits generated by the sales of the [*****].

c. As full consideration for the Development Services related solely to the [*****] and any assignment of right or rights in Devices related to [*****] to Amedica pursuant to Section 8 hereof, Amedica shall pay Bal, in the form of royalty or similar payments, payable on a monthly basis, [*****] of the Net After-Tax Profits generated by sales of [*****].

d. Upon Bal's death, or upon letters from two independent physicians that

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Bal is disabled and unable to perform the Development Services hereunder, this Agreement shall terminate as to Bal; provided, that Bal or Bal's designated beneficiary, shall continue to be entitled to receive the royalties as provided herein, applicable to all Devices for which commercial sales have commenced prior to the date of death or disability.

e. Notwithstanding any provision herein to the contrary, income used for calculating royalties payable to Bal hereunder shall not include any sales attributable to the use of any Devices by any hospital or surgical center where Bal (or a partner, shareholder, employee or contracting physician) concurrently practices medicine. No provision under this Agreement, either overtly or covertly, directly or indirectly, requires or contemplates that Bal make any recommendations to Bal's patients or health care facilities with respect to Devices or other products. There shall be no adjustment to the percentage of royalties, or the rate of any other compensation, resulting from the presence of or absence of, any recommendations of Devices or other products to Bal's patients or health care facilities by Bal.

f. Amedica shall maintain separate accountings relating to the Devices. Bal shall, at all times, have reasonable access to examine Amedica's books and records relating to the Devices solely for the purpose of confirming the accuracy of the amount of royalties payable pursuant to the terms of this Agreement.

g. Bal acknowledges that the payment provisions of this Section 4 represents the sole agreement between the parties with regard to Bal's compensation for all Development Services and any assignment of rights to the Devices; and Amedica shall not be obligated to make, or otherwise be liable for, any additional payment of compensation, reimbursement of expenses, or any other similar types of payment with regard to Development Services or the assignment of Devices. It is the parties' intent that this Agreement provide for the "sale or exchange of a capital asset" by Bal to Amedica under Internal Revenue Code Section 1235 entitled "Sale or Exchange of Patents," and that all payments made to Bal hereunder shall be taxed as long-term capital gains. Nothing in this Agreement to the contrary shall imply that the parties intend that the payments to Bal hereunder shall be for anything other than the transfer of all proprietary rights that Bal may have in the Devices. Bal acknowledges that Amedica has not made and is not making any representation or warranty as to ultimate tax treatment of the payments to Bal hereunder and that Bal is encouraged to consult with his own tax advisors.

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5. Exclusivity.

Amedica acknowledges that Bal has other professional business and investment dealings in addition to his responsibilities under this Agreement and that Bal will not be required to devote his time exclusively to his responsibilities hereunder. Notwithstanding any provision herein to the contrary, Bal agrees that during the Term, Amedica shall have the exclusive rights to the Devices.

6. Confidentiality.

a. Both during the Term and following termination of this Agreement for any reason, Bal shall not, at any time or in any manner or for any reason, directly or indirectly, use, divulge, disclose or communicate to any third-person or entity any information that was disclosed to or developed by Bal during the course of performing the Development Services and which is not generally available to the public, including, without limiting the generality of the foregoing: (i) information regarding matters affecting or relating to Amedica's business or Devices; (ii) the nature of Amedica's properties or products, whether developed or under development; (iii) the identity of Amedica's customers; (iv) prices which Amedica obtains or has obtained with respect to its products or services; (v) information as to Amedica's discussions, negotiations and/or dealings with actual or potential third-party buyers, investors, licensees or co-venturers; (vi) Amedica's costs, overhead or profit margin; or (vii) Amedica's operational methods or its business plans and processes. All material as such will be labeled "confidential".

b. Promptly following termination of this Agreement, Bal shall deliver to Amedica any and all property of Amedica which may be in his possession including products, materials, memoranda, notes, records, reports, writings, drawings, diskettes, models and other materials or other documents or photocopies of the same in any tangible form whatsoever, whether or not prepared by him, constituting confidential or proprietary information of Amedica, and any of the foregoing in intangible form.

7. Non-Competition.

a. *Certain Acknowledgments and Agreements*. Bal recognizes and acknowledges the competitive and proprietary nature of Amedica's existing and planned business operations. Bal acknowledges and agrees that, during the Term of this Agreement and the period of time following termination of this Agreement described in Section 7(b) hereof, a

business is deemed to be a “*Competitive Business*” if such business engages in a line of business in which it develops, manufactures or sells any products provided or offered by Amedica or any similar ceramic products to those described in Schedule A hereto.

b. *Covenant Not to Compete*. Bal agrees that during the Term and for an additional [*****] after termination of this Agreement (which period shall be tolled during the period of any violation or breach of any of the provisions hereof and for a period of [*****] thereafter), whether such termination is voluntary or involuntary, Bal shall not:

(i) For his benefit, or on behalf of any other person or entity, directly or indirectly, as principal, agent, stockholder, employee, consultant, representative or in any other capacity, own, manage, operate or control, or be concerned, connected or employed by, or otherwise associate in any manner with, engage in or have a financial interest in any Competitive Business dealing, manufacturing or having an interest in the devices listed in Schedule A hereto anywhere in North America (the “*Restricted Territory*”), except that nothing contained herein shall preclude Bal from purchasing or owning securities of any such business if such securities are publicly traded, and provided that his holdings do not exceed one percent (1%) of the issued and outstanding securities of any class of securities of such business; or

(ii) Either individually or on behalf of or through any third party, solicit, divert or appropriate or attempt to solicit, divert or appropriate, any known customers or patrons of Amedica; or

(iii) Either individually or on behalf of or through any third party, directly or indirectly, solicit, entice or persuade or attempt to solicit, entice or persuade any other employees of or consultants to Amedica or any present or future parent, subsidiary or affiliate of Amedica to leave the services of Amedica or any such parent, subsidiary or affiliate for any reason.

c. *Reasonableness of Restrictions*. Bal further recognizes and acknowledges that:

(i) The restrictions in this Section 7 are reasonable in relation to the skills which represent his principal salable asset both to Amedica and to any prospective employers; and

(ii) The geographical scope of the provisions of this Section 7 is

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reasonable, legitimate and fair to Bal in light of Amedica's need to market its services and sell its products worldwide in order to have a sufficient customer base to make Amedica's business profitable and in light of the limited restrictions on the type of employment prohibited herein compared to the types of employment for which Bal is qualified to earn his livelihood.

8. Ownership of Ideas, Copyrights and Patents.

a. *Disclosure of Devices.* Bal agrees that he will promptly disclose all Devices to Amedica and that he will not publish any Devices or any information with regard thereto, without the prior written consent of Amedica.

b. *Property of Amedica.* Amedica shall have the sole and exclusive right, even as to Bal, to prepare, file, prosecute, obtain and maintain any and all patents and patent applications claiming any Devices. All Devices shall be the sole and exclusive property of Amedica and Bal shall assign, and hereby does assign, to Amedica all of his right, title and interest in and to all of the Devices. If Amedica fails to commence the manufacture, marketing or distribution of the Devices within [*****] of its development, then Bal shall have the right, upon [*****] prior written notice to Amedica, to require Amedica to assign such rights back to Bal at Bal's sole expense; provided, however, that such [*****] period shall be extended until the anniversary of the date on which Amedica receives all approvals (including pricing and reimbursement approvals), product and establishment licenses, registrations, or authorizations of any kind of the U.S. Food and Drug Administration, or any successor agency or authority thereto (the "**FDA**"), necessary for the marketing and sale of the Device, but any such extension shall not commence unless application for such FDA approvals has been initiated by Amedica during the [*****] period following development of a Device, and such extension shall terminate if, after filing its initial application for such FDA approvals and prior to obtaining such approvals, Amedica fails to pursue such FDA approvals with reasonable diligence. Bal further agrees to use his best efforts to ensure that no Devices will violate or infringe upon any right, patent, copyright, trademark or right of privacy, or constitute libel or slander against or violate any other rights of any person, firm or corporation.

c. *Prior Rights.* Bal has furnished to Amedica, attached as Schedule B hereto:

(i) A list of all proprietary concepts and inventions in which he has any right, title, or interest as of the date of his execution of this Agreement ("**Prior Rights**"); and

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(ii) A list of all Prior Rights made, conceived, or developed, in whole or in part, by Bal prior to the date of his execution of this Agreement, and Bal represents that the list of Prior Rights set forth in Schedule B attached hereto is complete and accurate.

d. *Cooperation.* Bal hereby agrees to willfully cooperate with Amedica, its attorneys and agents in the preparation and filing of all papers and other documents as may be required to perfect Amedica's rights in and to any Devices, including, but not limited to, performing all acts deemed necessary or desirable by Amedica (both during the Term and for a period of [*****] after expiration of this Agreement) and joining in any proceeding to obtain letters patent, copyrights, trademarks or other legal rights of the United States of America and of any and all other countries to Devices; provided, that, Amedica will bear the expense of all such proceedings. Bal further agrees that any patent or other legal right covering any Device issued to Bal personally, shall be assigned promptly by Bal to Amedica without charge by Bal, except as specifically provided under Section 3 hereof.

e. *Works Made For Hire.* Without limiting the foregoing, Bal further acknowledges that all original works of authorship made by Bal after the execution of this Agreement, whether alone or jointly with others in the performance of the Development Services and which are protectable by copyright are "works made for hire" within the meaning of the United States Copyright Act, 17 U.S.C. § 101, as amended, the copyright of which shall be owned solely, completely and exclusively by Amedica. If any Device is considered to be work not included in the categories of work covered by the United States Copyright Act, 17 U.S.C. § 101, as amended, such work shall be owned solely by Amedica, and Bal hereby assigns or transfers completely and exclusively the same to Amedica.

9. Representations and Warranties Regarding Prior Work and Legal Obligations.

a. Bal hereby represents and warrants that he has no commitments or obligations with any prior employer or any other person or entity that would restrict his ability to perform the Development Services, or is inconsistent with this Agreement and Bal hereby agrees to indemnify and hold Amedica harmless against loss, damage, liability or expense arising from any claim based upon circumstances alleged to be inconsistent with such representation and warranty.

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b. Bal represents that he has been advised by Amedica that at no time should he divulge to, or use for the benefit of, Amedica any trade secret or confidential or proprietary information of any former, current or future employer. Bal acknowledges that he has not divulged or used, and agrees that he will not divulge or use any such information for the benefit of Amedica.

c. Bal represents that he has not and will not misappropriate any invention that he maintained any part in creating while working for any former, current or future employer.

d. Bal acknowledges that Amedica is basing important business decisions on these representations, and affirms that all of the statements included herein are true.

10. Equitable Remedies.

Bal acknowledges that the breach of the provisions of Sections 6, 7, 8 and 9 above shall constitute irreparable damage to Amedica and, accordingly, Amedica may, in addition to all other available remedies under law and equity, obtain injunctive relief upon an alleged violation of such Sections pending resolution on the merits of any claims raised by Amedica hereunder.

11. Stock Option Arrangements.

As further consideration hereunder, the parties agree in good faith to negotiate an agreement granting Bal certain rights to obtain options for the purchase of Amedica common stock. The nature, amount and terms of such options shall be agreed upon by the parties in good-faith as soon as reasonably possible.

12. Development Agreement Only.

This Agreement constitutes a development agreement only. Nothing herein is intended, nor shall it be construed, to create any employer/employee arrangement, partnership arrangement or other relationship between or among the parties except as expressly provided herein; and nothing herein is intended to grant to either party any right or interest in or to the assets, business or interests of the other party, nor the right to bind the other party except as expressly herein provided.

13. Compliance with Laws and Regulations.

The parties, at all times, shall interpret and apply the provisions of this Agreement strictly in accordance with all applicable laws and regulations, including, but not limited to, the so-called Stark federal anti-referral law and all Medicare and Medicaid laws and regulations. If

any provision of this Agreement is found, by any applicable court or government agency, to be in conflict with any applicable law or regulation, the provisions of such law or regulation shall govern; and the interpretation and operation under this Agreement shall be modified accordingly.

14. Indemnification by Amedica.

a. Amedica will indemnify and hold Bal harmless from any and all claims, costs, judgments and expenses involving:

(i) Any claim that any Device infringes or interferes with any patent or other proprietary claim of any third-party;

(ii) To the extent claimed or proven to be solely due to Device design or manufacturing defect (including reasonable attorneys' fees) of whatever sort based on claims of product design or manufacturing defects whether sounding in negligence, strict liability at law, contract or statutory violation; and

(iii) Any breach by Amedica of any provision of this Agreement.

b. Any indemnification provided by Amedica hereunder shall not apply to any claim insofar as that claims:

(i) Relates to a professional medical liability or malpractice claim brought against Bal for professional acts or omissions in connection with the medical care or treatment associated with a Device;

(ii) Arises from any breach by Bal of any provision of this Agreement; or

(iii) Arises from any knowing submission by Bal of false data to Amedica or from any other intentional wrongdoing by Bal.

c. Promptly upon Bal's receipt of information concerning the commencement of any third-party claim, demand, action, suit or proceeding (collectively, "*Action*") which is the subject of indemnification hereunder, Bal shall notify Amedica in writing of the commencement of the Action. Any failure to provide such prompt notice shall relieve Amedica of its indemnification obligations to the extent Amedica has been materially prejudiced by such failure. Amedica may select counsel at its own expense and control the defense of such indemnity claim and Bal may participate jointly with Amedica in such defense, at Bal's expense, in which event the parties shall reasonably cooperate with each other subject, however, to

Amedica's ultimate control of the defense. With respect to any Action relating solely to the payment of money damages, Amedica shall have the sole right to defend, settle, or otherwise dispose of such claim on such terms as Amedica, in its sole discretion, shall deem appropriate; provided, that Amedica shall provide reasonable evidence of its ability to pay any damages claimed. If the Action involves any claim in which Bal would become subject to injunctive relief or to other equitable relief, or Bal's business would be adversely affected in any manner, Amedica shall settle that claim only upon the written consent of Bal, which shall not be unreasonably withheld.

15. Indemnification by Bal.

Except to the extent that any such claims arise through the wrongful act or neglect of Amedica, Bal will indemnify and hold Amedica harmless from any and all claims, costs, judgments and expenses arising from any breach by Bal of any provision of this Agreement.

16. General.

a. Notices. All notices required or permitted to be given to a party hereunder shall be mailed by certified mail or registered mail, postage prepaid, to that party's address set forth on the signature page of this Agreement (or to such other address specified in writing and given to the other party in accordance with this Section 16(a)).

b. Default. If either party defaults upon any of the covenants or provisions herein, the defaulting party shall pay all costs and attorneys' fees incurred by the other party in enforcing its rights arising hereunder.

c. Governing Law and Venue. This Agreement shall be interpreted, performed and enforced according to the laws of the State of Utah. Venue for any action hereof shall lie with the Third Judicial District Court of the State of Utah for the United States District Court for the District of Utah, Central Division.

d. Unenforceable Provision. If any provision of this Agreement is deemed unenforceable by any court of competent jurisdiction, the remaining provisions shall nonetheless be enforceable according to their terms. Further, if any provision is held to be over broad as written, such provision shall be deemed amended to narrow its application to the extent necessary to make the provision enforceable according to applicable law and shall be enforced as amended.

e. Assignment. Amedica may assign its rights and obligations hereunder to any person or entity that succeeds to all or substantially all of Amedica's business or that aspect of Amedica's business in which Bal is principally involved. Bal's rights and obligations under this Agreement may not be assigned by Bal without the prior written consent of Amedica, except that Amedica agrees and consents that Bal may assign his rights and obligations hereunder to an entity that is and continues to be wholly owned and exclusively controlled by Bal, provided that: (i) such entity agrees in writing to be bound by the terms and conditions of this Agreement; (ii) such entity agrees in writing that it shall provide for such entity's services to be performed exclusively by Bal (except as otherwise agreed to by Amedica, which consent shall not be unreasonably withheld); and (iii) Bal shall continue to be personally subject to and bound by the provisions of Sections 8 through 12, inclusive, of this Agreement regardless of any such assignment.

f. Benefit. All statements, representations, warranties, covenants and agreements in this Agreement shall be binding on the parties hereto and shall inure to the benefit of the respective successors and permitted assigns of each party hereto. Nothing in this Agreement shall be construed to create any rights or obligations except between the parties hereto, and no person or entity shall be regarded as a third-party beneficiary of this Agreement, other than any future parent, subsidiary or affiliate of Amedica.

g. Entire Agreement. This Agreement embodies the entire agreement and understanding between the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement of any kind not expressly set forth in this Agreement shall affect, or be used to interpret, change or restrict, the express terms and provisions of this Agreement.

h. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended only by written agreement executed by the parties hereto.

i. Waivers and Consents. The terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be

deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

j. Construction. The parties have participated equally in the formation of this Agreement and the language of this Agreement will not be presumptively construed against either party.

k. Survival. The provisions of Sections 6, 7, 8, 9, 10, 13, 14, 15 and this Section 16 of this Agreement shall survive the expiration or early termination of this Agreement.

l. Counterparts. This Agreement may be executed in one or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

m. Section Numbers and Headings. The Section and Subsection headings and numbers used herein are for purposes of convenience and shall not be considered in the interpretation of this Agreement.

-13-

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

IN WITNESS WHEREOF, the parties hereto have executed and delivered this Development Agreement, under seal, as of the date first written above.

AMEDICA CORPORATION

By: /s/ Warionex J. Belen
Warionex "Jose" Belen
President

AMEDICA ADDRESS:

Amedica Corporation
615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

/s/ B. Sonny Bal
B. Sonny Bal, M.D.

BAL ADDRESS:

B. Sonny Bal, M.D.
[*****]
[*****]

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

SCHEDULE A

Devices:

Devices consist of the following, [*****]:

1. [*****];
2. [*****]; and
3. [*****].

[THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK.]

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

SCHEDULE B

Prior Rights:

The following five concepts, ideas and experiments are the subject of an engagement between Bal and [*****], none which compete with Amedica or are similar to the items listed in Schedule A to this Agreement.

1. [*****]
2. [*****]
3. [*****]
4. [*****]
5. [*****]

Also, Bal is engage in projects with [*****] concerning the following items:

- A. [*****]
- B. [*****]

[THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK.]

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

AMENDED AND RESTATED CONSULTING AGREEMENT

This Amended and Restated Consulting Agreement (this "Agreement") is made and entered into as of the 20th day of October, 2003 (the "Effective Date"), by and between AMEDICA CORP., a Delaware corporation ("Amedica") and DARRYL S. BRODKE, M.D. ("Brodke").

RECITALS

WHEREAS, each of Amedica and Brodke are party to that certain Consulting Agreement dated April 1, 2000 (the "Original Consulting Agreement"); and

WHEREAS, Amedica and Brodke now desire to amend and restate the Original Consulting Agreement.

NOW, THEREFORE, for and in consideration of the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree and represent as follows:

1. Consulting Arrangement. The parties agree that, during the Term, Brodke shall diligently perform consulting and related services (the "Services") as requested by Amedica relating to the conceptualization, development, testing, approval and related matters involving the Devices (as defined below). The Services shall include, without limitation, the following:

- a. Consulting about the characteristics of the Devices and the nature of the materials with which the Devices are constructed.
- b. Providing expertise in ideas, testing and coordination with other Amedica personnel and third parties, as requested by Amedica.
- c. Providing guidance and assistance in the clinical details of the Devices.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

d. Using commercially reasonable efforts to generate interest in the Amedica Devices (defined below) from companies who may seek to enter into a transaction with Amedica relating to the Amedica Devices.

e. Assisting in the filing of provisional patents and other patents as determined by Amedica.

f. Assisting in applying for or otherwise seeking regulatory approval for the Amedica Devices or surgical processes for their implantation or other use.

g. Definition of "Device(s)." For purposes of this Agreement, "Device(s)" shall mean all ideas, discoveries, creations, improvements, know-how, inventions, designs, developments, apparatus, techniques, methods, processes, and materials whether or not patentable, including all rights to obtain, perfect or enforce any proprietary interests therein, in the Field of Interest, which Brodke may conceive, reduce to practice or develop during the Term (or, if based on or related to any confidential or proprietary information of Amedica, within [*****] after the termination of this Agreement), alone or in conjunction with another, or others, whether during or out of regular business hours, and whether at the request or upon the suggestion of Amedica, or otherwise.

2. Term and Termination.

a. The term (the "Term") of this Agreement shall commence as of the Effective Date and shall continue until the later of. (i) ten (10) years from the date hereof; or (ii) the expiration of patent rights on the Amedica Devices, unless earlier terminated as provided hereunder.

b. Either party has the right to terminate this Agreement at any time upon thirty (30) days' prior written notice to the other.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

3. Compensation For Assignment and Sale Proprietary Rights. As full consideration for the Services and any assignment of right in Amedica Devices to Amedica pursuant to Section 8 hereof, Amedica shall pay Brodke as follows:

a. Brodke shall, in the form of royalty or similar payments, receive up to [*****] of the Net After-Tax Profits. “Net After-Tax Profits” is defined as that portion of profits received by Amedica attributable to sale of Amedica Devices, after deducting from all gross proceeds from such sales the costs and expenses attributable to the development, testing, marketing and sale of the Amedica Devices (but not including any Amedica overhead or expenses unrelated to the Amedica Devices), and less all sales, use, occupation or excise taxes and all income taxes applicable to income generated from the Amedica Devices.

b. Brodke’s share of the Net After-Tax Profits shall be determined by Brodke and Amedica, in good faith, based upon his contribution to the final form of the Amedica Devices, relative to the contributions of Amedica and any third parties. Such share shall be calculated on a monthly basis, with payment to Brodke of each monthly amount no later than the last day of the following month.

c. Amedica shall maintain separate accountings relating to the Amedica Devices. Brodke shall, at all times, have reasonable access to examine Amedica’s books and records relating to the Amedica Devices.

d. Brodke hereby acknowledges that the payment provisions of this Section 3 represent the sole agreement between the parties with regard to his compensation for all Services and any assignment of rights to the Amedica Devices; and Amedica shall not be obligated to make, or otherwise be liable for, any additional payment of compensation or reimbursement of expenses with regard to Services or the Amedica Devices or other similar type payment. It is the

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parties' intent that this Agreement provide for the "sale or exchange of a capital asset" by Brodke to Amedica under Internal Revenue Code Section 1235 entitled "Sale or Exchange of Patents," and that all payments made to Brodke hereunder shall be taxed as long-term capital gains. Nothing in this Agreement to the contrary shall imply that the parties intend that the payments to Brodke hereunder shall be for anything other than the transfer of all proprietary rights that Brodke may have in the Amedica Devices. Amedica is making no warranties or representations, however, as to ultimate taxability of the payments to Brodke hereunder.

4. Facilities. To the extent necessary, Amedica shall provide Brodke office space, equipment, telephone, secretarial help and all other equipment and related services necessary for the performance of the Services hereunder.

5. Exclusivity. Amedica acknowledges that Brodke has other professional business and investment dealings in addition to his responsibilities under this Agreement and that Brodke will not be required to devote his time exclusively to his responsibilities hereunder. Notwithstanding any provision herein to the contrary, Brodke agrees that during the Term, Amedica shall have the exclusive right to the Devices.

6. Confidentiality.

a. Both during the Term and following termination of this Agreement for any reason, except as necessary for the performance of the Services hereunder, Brodke shall not, at any time or in any manner, directly or indirectly, use, divulge, disclose or communicate to any third-person or entity any information that was disclosed to or developed by Brodke during the course of performing the Services and which is not generally available to the public, including, without limiting the generality of the foregoing: information regarding matters affecting or relating to Amedica's business or its Devices; the nature of Amedica's properties or products,

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whether developed or under development; the identity of Amedica's customers; prices which Amedica obtains or has obtained with respect to its products or services; information as to Amedica's discussions, negotiations and/or dealings with actual or potential third-party buyers, investors, licensees or co-venturers; Amedica's costs, overhead or profit margin; or Amedica's operational methods or its business plans and processes.

b. Records. Promptly following termination of this Agreement, Brodke shall deliver to Amedica any and all property of Amedica which may be in his possession including products, materials, memoranda, notes, records, reports, writings, drawings, diskettes, models and other materials or other documents or photocopies of the same in any tangible form whatsoever constituting confidential or proprietary information of Amedica, and any of the foregoing in intangible form.

7. Covenant Not to Compete

a. Certain Acknowledgments and Agreements. Brodke recognizes and acknowledges the competitive and proprietary nature of Amedica's business operations. Brodke acknowledges and agrees that a business will be deemed competitive with Amedica if it engages in a line of business in which it develops, manufactures or sells any products provided or offered by Amedica or any similar products, or products fulfilling the same function, in the Field of Interest (such business to be referred to as a "Competitive Business"). The term "Field of Interest" currently means the development, testing and commercializing of biomedical or surgical devices intended for use in diagnosing, preventing or treating diseases or conditions affecting the spine or related structure or tissues or any applications thereof. Amedica may expand or otherwise change the definition of its Field of Interest at any time, which new definition will be binding upon Brodke ten (10) days after written notice to Brodke thereof.

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b. Brodke agrees that during the Term and for an additional [*****] after termination of this Agreement (which period shall be tolled during the period of any violation or breach of any of the provisions hereof and for a period of [*****] thereafter), whether such termination is voluntary or involuntary, Brodke shall not:

(i) for his benefit, or on behalf of any other person or entity, directly or indirectly, as principal, agent, stockholder, employee, consultant, representative or in any other capacity, own, manage, operate or control, or be concerned, connected or employed by, or otherwise associate in any manner with, engage in or have a financial interest in any Competitive Business anywhere in the continental United States of America (the "Restricted Territory"), except that nothing contained herein shall preclude Brodke from purchasing or owning securities of any such business if such securities are publicly traded, and provided that his holdings do not exceed one percent (1%) of the issued and outstanding securities of any class of securities of such business; or

(ii) either individually or on behalf of or through any third party, solicit, divert or appropriate or attempt to solicit, divert or appropriate, any known customers or patrons of Amedica; or

(iii) either individually or on behalf of or through any third party, directly or indirectly, solicit, entice or persuade or attempt to solicit, entice or persuade any other employees of or consultants to Amedica or any present or future parent, subsidiary or affiliate of Amedica to leave the services of Amedica or any such parent, subsidiary or affiliate for any reason.

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c. Reasonableness of Restrictions. Brodke further recognizes and acknowledges that: (i) the restrictions in this Section 7 are reasonable in relation to the skills which represent his principal saleable asset both to Amedica and to his other prospective employers, and (ii) the geographical scope of the provisions of this Section 7 is reasonable, legitimate and fair to Brodke in light of Amedica's need to market its services and sell its products worldwide in order to have a sufficient customer base to make Amedica's business profitable and in light of the limited restrictions on the type of employment prohibited herein compared to the types of employment for which Brodke is qualified to earn his livelihood.

d. Survival of Acknowledgments and Agreements. his acknowledgments and agreements set forth in this Section 7 shall survive the expiration or termination of this Agreement and the termination of his employment with Amedica for any reason.

8. Ownership of Ideas, Copyrights and Patents.

a. Disclosure of Devices. Brodke agrees that he will promptly disclose all Devices to Amedica and that he will not publish any Devices, or any information with regard thereto, without the prior written consent of Amedica.

b. Property of Amedica. Amedica shall have the sole and exclusive right, even as to Brodke, to prepare, file, prosecute, obtain and maintain any and all patents and patent applications claiming any Devices (each thereafter, an "Amedica Device"). All Amedica Devices shall be the sole and exclusive property of Amedica and, subject to payment pursuant to the provisions of Section 3 hereof, Brodke hereby assigns to Amedica all of his right, title and interest in and to all of the Amedica Devices. Brodke further agrees to use his best efforts to ensure that no Devices will violate or infringe upon any right, patent, copyright, trademark or right of privacy, or constitute libel or slander against or violate any other rights of any person, firm or corporation.

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c. Other Devices. Brodke has attached hereto as Schedule A (i) a list of all Devices in which Brodke has any right, title, or interest as of the date of his execution of this Agreement (“Other Devices”), and (ii) a list of all Other Devices made, conceived, or developed, in whole or in part, by Brodke prior to the date of his execution of this Agreement, and Brodke represents that Schedule A is a complete and accurate list of all Other Devices.

d. Cooperation. Brodke hereby agrees to wilfully cooperate with Amedica, its attorneys and agents in the preparation and filing of all papers and other documents as may be required to perfect Amedica’s rights in and to any Amedica Devices, including, but not limited to, performing all acts deemed necessary or desirable by Amedica (both during the Term and for a period of [*****] after expiration of this Agreement) and joining in any proceeding to obtain letters patent, copyrights, trademarks or other legal rights of the United States of America and of any and all other countries to Amedica Devices; provided, that, Amedica will bear the expense of all such proceedings. Brodke hereby agrees that any patent or other legal right covering any Amedica Device issued to Brodke personally, shall be assigned by Brodke to Amedica without charge by Brodke, except as specifically provided under Section 3 hereof.

e. Works Made For Hire. Without limiting the foregoing, Brodke further acknowledges that all original works of authorship made by Brodke, whether alone or jointly with others in the performance of the Services and which are protectable by copyright are “works made for hire” within the meaning of the United States Copyright Act, 17 U.S.C. § 101, as amended, the copyright of which shall be owned solely, completely and exclusively by Amedica. If any Amedica Device is considered to be work not included in the categories of work covered by the United States Copyright Act, 17 U.S.C. § 101, as amended, such work shall be owned solely by, or hereby assigned or transferred completely and exclusively to, Amedica.

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9. Representations and Warranties Regarding Prior Work and Legal Obligations.

a. Brodke hereby represents and warrants that he has no commitments or obligations with any prior employer or any other person or entity that, would restrict his ability to perform the Services, or is inconsistent with this Agreement and Brodke hereby agrees to indemnify and hold Amedica harmless against loss, damage, liability or expense arising from any claim based upon circumstances alleged to be inconsistent with such representation and warranty.

b. Brodke represents that he has been advised by Amedica that at no time should he divulge to, or use for the benefit of, Amedica any trade secret or confidential or proprietary information of any previous employer. Brodke acknowledges that he has not divulged or used any such information for the benefit of Amedica.

c. Brodke represents that he has not and will not misappropriate any invention that he played any part in creating while working for any former employer.

d. Brodke acknowledges that Amedica is basing important business decisions on these representations, and affirms that all of the statements included herein are true.

10. Equitable Remedies. Brodke acknowledges that the breach of the provisions of Sections 6, 7, 8 and 9 above shall constitute irreparable damage to Amedica and, accordingly, Amedica may, in addition to all other available remedies under law and equity, obtain injunctive relief upon an alleged violation of such Sections pending resolution on the merits of any claims raised by Amedica hereunder.

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11. Stock Option Arrangements. As further consideration hereunder, the parties agree in good faith to negotiate an agreement granting Brodke certain rights to obtain options for the purchase of Amedica stock. The nature, amount and terms of such options shall be agreed upon by the parties in good-faith as soon as reasonably possible.

12. Consulting Agreement Only. This Agreement constitutes a consulting agreement only. Nothing herein is intended, nor shall it be construed, to create any employer/ employee arrangement, partnership arrangement or other relationship between the parties except as expressly provided herein; and nothing herein is intended to grant to either party any right or interest in or to the assets, business or interests of the other party, nor the right to bind the other party except as expressly herein provided.

13. General.

a. Notices. All notices required or permitted to be given to a party hereunder shall be mailed by certified mail or registered mail, postage prepaid, to that party's address set forth on the signature page of this Agreement (or to such other address specified in writing).

b. Default. If either party defaults in any of the covenants or provisions herein, the defaulting party shall pay all costs and attorneys' fees incurred by the other party in enforcing its rights arising hereunder.

c. Governing Law and Venue. This Agreement shall be interpreted, performed and enforced according to the laws of Utah. Venue for any action hereof shall lie with the Third Judicial District Court of the State of Utah for the United States District Court for the District of Utah, Central Division.

d. Unenforceable Provision. If any provision of this Agreement is deemed unenforceable by any court of competent jurisdiction, the remaining provisions shall nonetheless

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be enforceable according to their terms. Further, if any provision is held to be over broad as written, such provision shall be deemed amended to narrow its application to the extent necessary to make the provision enforceable according to applicable law and shall be enforced as amended.

e. Assignment. Amedica may assign its rights and obligations hereunder to any person or entity that succeeds to all or substantially all of Amedica's business or that aspect of Amedica's business in which Brodke is principally involved, his rights and obligations under this Agreement may not be assigned by Brodke without the prior written consent of Amedica.

f. Benefit. All statements, representations, warranties, covenants and agreements in this Agreement shall be binding on the parties hereto and shall inure to the benefit of the respective successors and permitted assigns of each party hereto. Nothing in this Agreement shall be construed to create any rights or obligations except between the parties hereto, and no person or entity shall be regarded as a third-party beneficiary of this Agreement, other than any future parent, subsidiary or affiliate of Amedica.

g. Entire Agreement. This Agreement embodies the entire agreement and understanding between the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement of any kind not expressly set forth in this Agreement shall affect, or be used to interpret, change or restrict, the express terms and provisions of this Agreement.

h. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended only by written agreement executed by the parties hereto.

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i. Waivers and Consents. The terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

j. Construction. The parties have participated equally in the formation of this Agreement and the language of this Agreement will not be presumptively construed against either party.

k. Counterparts. This Agreement may be executed in one or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

l. Section Numbers and Headings. The Section and Subsection headings and numbers used herein are for purposes of convenience and shall not be considered in the interpretation of this Agreement.

[Remainder of page intentionally left blank.]

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IN WITNESS WHEREOF this 20th day of October, 2003.

AMEDICA

ADDRESS

AMEDICA CORP.
A DELAWARE CORPORATION

Amedica Corporation
2116 South Lakeline Drive
Salt Lake City, UT 84109

By /s/ Ashok Khandkar
Its CEO

BRODKE

ADDRESS:

Darryl S. Brodke

[*****]
[*****]

/s/ Darryl S. Brodke, M.D.
DARRYL S. BRODKE, M.D.

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Other Devices

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**AMENDMENTS TO
AMENDED AND RESTATED CONSULTING AGREEMENT**

These Amendments are made and entered into as of this 30 day of May, 2006, by and between Amedica Corp., a Delaware Corporation (“Amedica”) and Darrel S. Brodke, M.D. (“Brodke”)

RECITALS:

A. By date of October 20, 2003, the parties entered into an Amended and Restated Consulting Agreement (the “Agreement”).

B. The parties desire now to amend the Agreement to define the specific Devices covered by the Agreement and to amend and to clarify the amount of Brodke’s compensation thereunder.

NOW, THEREFORE, in consideration of the foregoing and the mutual covenants and agreements hereinafter set forth, and other valuable consideration, the parties agree as follows:

1. All references to “Device(s)” throughout the Agreement refer to, and are limited to: (i) the [*****] made from [*****], and (ii) the [*****] made from [*****].

2. The first sentence in subparagraph 3(a) is amended and restated to read as follows:

a. *Brodke shall, in the form of royalty or similar payments, receive [*****] of the Net After-Tax Profits.*

The remainder of subparagraph 3(a) shall continue as written.

3. Subparagraph 3(b) is eliminated in its entirety.

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4. Any reference or implication, if any, in the Agreement to any required sharing by Brodke of his royalties with any collaborators or other third party is terminated and eliminated from the Agreement.

5. If any remaining provision of the Agreement, after giving effect to the Amendments provided above, conflicts with any of these Amendments, that conflicting provision shall be interpreted and applied consistent with these Amendments.

6. Except as otherwise specifically provided herein, all other provisions of the Agreement shall continue in full force and effect.

Dated as of the day and year first above mentioned.

ADDRESS:

615 Arapeen Drive, Suite 302
Salt Lake City, UT 84108

AMEDICA:

Amedica Corp.,
a Delaware Corporation

By /s/ Eugene B. Jones

Its Vice President, Finance and CFO

BRODKE:

[*****]
[*****]

/s/ Darrel S. Brodke, M.D.
Darrel S. Brodke, M.D.

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to the Company's application requesting confidential treatment under Rule 406 of the Securities Act of 1933, as amended.

Consent of Independent Registered Public Accounting Firm

We consent to the reference to our firm under the caption "Experts" and to the use of our report dated May 18, 2007, with respect to the financial statements of Amedica Corporation, in Amendment No. 1 to the Registration Statement (Form S-1 No. 333-143160) and related Prospectus of Amedica Corporation for the registration of shares of its common stock.

/s/ Ernst & Young LLP

Salt Lake City, Utah
June 26, 2007

LECG

Consent of Appraiser

LECG, LLC hereby consents to the references by Amedica Corporation made to us and/or our valuation analyses (i) under the caption “Management’s Discussion and Analysis of Financial Condition and Results of Operation” and (ii) in the Notes to the Financial Statements, each in the Prospectus constituting a part of the Registration Statement, File No. 333-143160, on Form S-1 filed with the Securities and Exchange Commission.

Sincerely,

LECG, LLC

By: /s/ JOHN C. BURKE

John C. Burke
Chief Financial Officer

June 27, 2007