UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

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ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the fiscal year ended December 31, 2016 TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the transition period from to Commission File Number 001-33092 LEMAITRE VASCULAR, INC. (Exact name of registrant as specified in its charter) 04-2825458 Delaware (State or other jurisdiction of incorporation or organization) (I.R.S. Employer Identification No.) 63 Second Avenue, Burlington, Massachusetts 01803 (Address of principal executive offices) (Zip Code) Registrant's telephone number, including area code 781-221-2266 Securities registered under Section 12(b) of the Act: Title of each class Name of each exchange on which registered Common Stock, \$0.01 par value per share NASDAQ Global Market Securities registered under Section 12(g) of the Act: None Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes: D No: Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes: D No: Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes: ✓ No: □ Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes \square No \square Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. ☑ Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer," and "smaller reporting company" in Rule12b-2 of the Exchange Act. Non-accelerated filer □ (Do not check if a small reporting company) Smaller reporting company Indicate by check mark whether the registrant is a shell company (as defined in Rule12b-2 of the Act). Yes: \square No: \square The aggregate market value of the voting and non-voting common stock held by non-affiliates of the registrant, based on the last sale price for such stock on June 30, 2016: \$180,617,111. For purposes of this calculation, shares held by stockholders whose ownership exceeded 5% of the registrant's

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common stock outstanding were deemed to be held by affiliates. Exclusion of such shares should not be construed to indicate that any such person possesses the power, direct or indirect, to direct or cause the direction of the management or policies of the registrant or that such person is controlled by or under common control with the registrant. At March 2, 2017, the registrant had 18,670,632 shares of common stock, par value \$0.01 per share, outstanding.

Part III of this Form 10-K incorporates information by reference from the registrant's definitive proxy statement to be filed with the Securities and Exchange Commission within 120 days after the close of the fiscal year covered by this annual report.

LEMAITRE VASCULAR 2016 ANNUAL REPORT ON FORM 10-K

2016 ANNUAL REPORT ON FORM 10 TABLE OF CONTENTS

PART I		
Item 1.	<u>Business</u>	1
Item 1A.	<u>Risk Factors</u>	18
Item 1B.	Unresolved Staff Comments	35
Item 2.	Properties	35
Item 3.	Legal Proceedings	36
Item 4.	Mine Safety Disclosures	36
PART II		
Item 5.	Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities	37
Item 6.	Selected Financial Data	40
Item 7.	Management's Discussion and Analysis of Financial Condition and Results of Operations	41
Item 7A.	Quantitative and Qualitative Disclosures About Market Risk	58
Item 8.	Financial Statements and Supplementary Data	59
Item 9.	Changes In and Disagreements With Accountants on Accounting and Financial Disclosure	59
Item 9A.	Controls and Procedures	59
Item 9B.	Other Information	62
PART III		
Item 10.	Directors, Executive Officers and Corporate Governance	63
Item 11.	Executive Compensation	63
Item 12.	Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters	63
Item 13.	Certain Relationships and Related Transactions, and Director Independence	64
Item 14.	Principal Accounting Fees and Services	64
PART IV		
Item 15.	Exhibits and Financial Statements Schedules	65
Item 16.	Form 10-K Summary	69
SIGNATURES		70

PART I

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K contains forward-looking statements (within the meaning of the federal securities law) that involve substantial risks and uncertainties. All statements, other than statements of historical facts, included in this Annual Report on Form 10-K regarding our strategy, future operations, future financial position, future net sales, gross margin expectations, projected costs, projected expenses, prospects and plans and objectives of management are forward-looking statements. The words "anticipates," "believes," "estimates," "expects," "intends," "may," "plans," "projects," "will," "would," and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. We have based these forward-looking statements on our current expectations and projections about future events. Although we believe that the expectations underlying any of our forward-looking statements are reasonable, these expectations may prove to be incorrect, and all of these statements are subject to risks and uncertainties. Should one or more of these risks and uncertainties materialize, or should underlying assumptions, projections, or expected. We have included important factors in the cautionary statements included in this Annual Report on Form 10-K, particularly in the section entitled "Risk Factors," that we believe could cause actual results or events to differ materially from the forward-looking statements that we make. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures, investments or terminations of distribution arrangements that we may make. We do not assume any obligation to update any forward-looking statements, whether as a result of new information, future events, or otherwise, except as required by law.

The following discussion should be read in conjunction with our financial statements and the related notes contained elsewhere in this Annual Report on Form 10-K and in our other Securities and Exchange Commission filings.

Unless the context requires otherwise, references to "LeMaitre Vascular," "LeMaitre," "we," "our," and "us" in this Annual Report on Form 10-K refer to LeMaitre Vascular, Inc. and its subsidiaries.

LeMaitre, AlboGraft, AnastoClip, AnastoClip GC, EndoRE, Expandable LeMaitre Valvulotome, Glow 'N Tell, Inahara-Pruitt, InvisiGrip, LeverEdge, LifeSpan, MollRing Cutter, MultiTASC, Omniflow, Pruitt F3, Pruitt-Inahara, Reddick, VascuTape, TRIVEX, XenoSure, and the LeMaitre Vascular logo are registered trademarks of LeMaitre Vascular or one of its subsidiaries, and AlboSure, Flexcel, Periscope, RestoreFlow and VCS are unregistered trademarks of LeMaitre Vascular. This Annual Report on Form 10-K also includes the registered and unregistered trademarks of other persons, which are the property of their respective owners.

Item 1. Business

Overview

LeMaitre Vascular is a global provider of medical devices and human tissue cryopreservation services for the treatment of peripheral vascular disease. We develop, manufacture, and market vascular devices to address the needs of vascular surgeons. Our diversified portfolio of peripheral vascular devices consists of brand name products that are used in arteries and veins outside of the heart and are well known to vascular surgeons, and includes the HYDRO Expandable LeMaitre Valvulotome, the XenoSure biologic patch, the Pruitt F3 Carotid Shunt and VascuTape Radiopaque Tape. Our principal product offerings are sold throughout the world, primarily in the United States, Europe and, to a lesser extent, Asia and the Pacific Rim. We estimate that the annual worldwide market which our core product lines address is approximately \$840 million.

We sell our products and services primarily through a direct sales force. As of December 31, 2016 our sales force was comprised of 96 sales representatives in North America, Europe, Japan, China and Australia. We also sell our products in other geographies through distributors. Our worldwide headquarters is located in Burlington,

Massachusetts. Our international operations are headquartered in Sulzbach, Germany. We also have sales offices located in Tokyo, Japan; Mississauga, Canada; Madrid, Spain; Milan, Italy; Shanghai, China; and North Melbourne, Australia. In 2016, approximately 92% of our net sales were generated in territories in which we employ direct sales representatives.

The Peripheral Vascular Disease Market

Based on industry statistics, we estimate that peripheral vascular disease affects more than 20 million people worldwide and that the annual worldwide market for all peripheral vascular devices is approximately \$4 billion. The disease encompasses a number of conditions in which the arteries or veins that carry blood to or from the legs, arms, or organs other than the heart become narrowed, obstructed, weakened, or otherwise compromised. In many cases peripheral vascular disease goes undetected, sometimes leading to life-threatening events including stroke, ruptured aneurysm, pulmonary embolism or death. We believe that the peripheral vascular disease market will grow due to the increase in the incidence and diagnosis rates of peripheral vascular disease, a shift by doctors to prescribing higher-priced endovascular devices, and the adoption of western healthcare standards by the developing world. We believe that our strong brands, established sales force, evolving suite of peripheral vascular device offerings, and broad network of vascular surgeon customers position us to capture an increasing share of this large and growing market.

Clinical studies have identified several factors that increase the risk of peripheral vascular disease, including smoking, diabetes, obesity, high blood pressure, lack of exercise, coronary artery disease, high cholesterol, and being over the age of 65. Demographic trends suggest an increase in the prevalence of peripheral vascular disease over time, driven primarily by rising levels of obesity and diabetes and an aging population.

Vascular surgeons treat peripheral vascular disease and also perform vascular procedures associated with other diseases, such as end-stage renal disease. We estimate that there are more than 2,500 board-certified vascular surgeons and several thousand general surgeons who perform vascular procedures in the United States, and that there are more than 3,000 vascular surgeons in Europe, Asia and the Pacific Rim. In contrast to other medical specialists, such as interventional cardiologists and interventional radiologists, vascular surgeons perform both conventional open vascular surgeries and endovascular procedures. Conventional open vascular surgery involves opening the body, cutting vessels, and suturing. Endovascular procedures typically are minimally invasive, catheter-based procedures involving repairing vessels from within using real-time imaging technologies. We estimate that in 2016, 86% of our net sales were from devices used in open vascular procedures.

Our Business Strategies

We have grown our business by using a three-pronged strategy: focusing on the vascular surgeon call point, competing for sales in low rivalry niche markets, and expanding our growth platform through our worldwide direct sales force as well as acquiring and developing complementary vascular devices.

- Focused call point. We have historically directed our product offering and selling efforts towards the vascular surgeon, and estimate that in 2016 approximately 75% of our sales were to this type of customer. In contrast to other medical specialists, such as interventional cardiologists and interventional radiologists, vascular surgeons are uniquely positioned to be able to perform both conventional open vascular surgeries as well as minimally invasive endovascular procedures. We believe that this presents our core customer with an opportunity to gain procedural market share against competing specialists, while offering us the ability to sell devices in both the open and endovascular markets to the same end user.
- Low rivalry niche segments. We seek to build and maintain leading positions in niche product and services segments. We believe that the relative lack of competitive focus on these segments by our larger competitors who may have greater resources than we do, as well as the differentiated features

and consistent quality of our products, allow for us to establish both higher selling prices and market share gains in these markets. In recent years we have also sought to sell complementary offerings such as the Omniflow biosynthetic graft or the RestoreFlow human tissue cryopreservation services, in larger, more competitive market segments, particularly when we believe that our offerings in those segments are highly differentiated.

• Direct sales force expansion, and the addition of complementary products through acquisitions and research and development. We sell our products primarily through a direct sales force in North America, Europe, Asia and the Pacific Rim. Since 1998, we have built our sales force from zero to 96 direct sales representatives. We believe that direct-to-hospital sales build closer customer relationships, allow for higher selling prices and gross margins, and are not subject to the risk of customer loss related to distributor turnover. In countries where we do not have a direct sales force, we also sell our products through distributors. For the year ended December 31, 2016, however, approximately 92% of our net sales were generated through our direct-to-hospital sales force, and no single hospital customer accounted for more than 2% of our net sales. We intend to further expand and diversify our product offerings and add new technology platforms. We believe our significant experience in acquiring and integrating product lines and businesses is one of our competitive advantages. We evaluate the acquisition of additional product lines and businesses that may be complementary to our product offerings, refine our current product lines, develop new applications for our existing technologies, and obtain regulatory approvals for our devices in new segments and geographies in order to further access the broader peripheral vascular device market.

Acquisition History

We were founded in 1983 by George D. LeMaitre, M.D., a vascular surgeon who designed and developed the predecessor to our 1.5mm HYDRO LeMaitre Valvulotome. Through a combination of strategic acquisitions and research and development efforts, we have expanded to 15 product lines.

We have completed 19 acquisitions of complementary products since 1998:

Year	Acquisition	Key Product(s) and Services
1998	Whittaker Screen Printing	Radiopaque tape manufacturing operations
1999	Vermed	Balloon catheters
2001	Ideas for Medicine	Carotid shunts, balloon catheters, and laparoscopic cholecystectomy devices
2003	Credent	Polycarbonate grafts
2004	VCS Clip	Vessel closure system
2005	Endomed	Stent grafts
2007	Vascular Innovations	Contrast injector
2007	Vascular Architects	Remote endarterectomy devices
2007	UnBalloon Technology	Stent graft modeling catheters
2007	Biomateriali	Polyester grafts and patches
2010	LifeSpan	ePTFE grafts
2012	XenoSure	Biologic patches
2013	Clinical Instruments	Carotid Shunts and Embolectomy Catheters
2013	TRIVEX	Powered phlebectomy system
2014	Xenotis Pty Ltd	Biosynthetic grafts
2014	Angioscope	Fiberoptic catheters
2015	Tru-Incise (for sale outside of the	
	US)	Valvulotomes
2016	ProCol	Biologic vascular graft
2016	RestoreFlow Allografts	Human tissue cryopreservation services

With the exception of the remote endarterectomy devices, powered phlebectomy systems, the Tru-Incise valvulotome, cryopreserved allograft services, biosynthetic grafts and our ProCol biologic vascular grafts, we have relocated the manufacturing operations associated with our 19 acquisitions to our Burlington, Massachusetts headquarters and we continue to look at ways to make our operations more efficient. The manufacture of our biosynthetic vascular grafts take place in our North Melbourne, Australia facility and the human tissue processing and cryopreservation operations associated with RestoreFlow allografts take place in our Fox River Grove, Illinois facility.

Our Products and Services

We have a portfolio of 15 product lines, most of which are designed for use in open vascular surgery. We also provide services related to the processing and cryopreservation of human vascular tissue. Our products and services address various anatomical areas including the carotid, lower extremities, upper extremities, aorta and other areas. In 2016, the lower extremities product lines and services were 51% of revenues, the carotid product lines comprised 31% of our revenues, and other areas combined were 18%. In 2015, the lower extremities product lines were 53% of revenues while the carotid product lines were 29%. In 2014, the lower extremities were 51% of revenues while the carotid product lines were 28%. The average selling price of valvulotomes, which are included in our lower extremities product lines, increased significantly in 2015 with the introduction of our 1.5mm HYDRO LeMaitre Valvulotome. No single product line accounted for more than 25% of our revenues in 2016, 2015 or 2014.

Of our 15 product offerings, three are biologic devices that are implanted in the patient, and one is the service of processing and cryopreserving human tissue for implantation into the patient. These include the XenoSure patch (bovine pericardium), ProCol graft (bovine mesenteric vein), OmniFlow biosynthetic graft (ovine tissue and synthetic mesh) and the RestoreFlow Allograft cryopreserved graft (human tissue). As a percentage of sales, these product lines represented 27% in 2016, 21% in 2015 and 15% in 2014.

Angioscopes

The LeMaitre Disposable Angioscope is a fiberoptic catheter used for viewing the lumen of a blood vessel. It also provides direct visualization of valves during in-situ bypass procedures.

Balloon Catheters for Embolectomy, Occlusion and Perfusion

Our LeMaitre line of embolectomy catheters are used to remove blood clots from arteries or veins. We manufacture single-lumen latex and latex-free embolectomy catheters as well as dual-lumen latex embolectomy catheters. The dual-lumen embolectomy catheter allows clot removal and simultaneous irrigation or guide-wire trackability. Occlusion catheters temporarily occlude blood flow to allow the vascular surgeon time and space to complete a given procedure. Perfusion catheters temporarily perfuse blood and other fluids into the vasculature. Our Pruitt line of occlusion and perfusion catheters reduces vessel trauma by using internal balloon fixation rather than traditional external clamp fixation.

Carotid Shunts

Our Pruitt F3, Pruitt-Inahara and Flexcel carotid shunts are used to temporarily shunt blood to the brain while the surgeon removes plaque from the carotid artery in a carotid endarterectomy surgery. Our Pruitt F3 and Inahara-Pruitt, shunts feature internal balloon fixation that eliminates the need for clamps, thereby reducing vessel trauma. Our Flexcel shunt is a non-balloon shunt offered for surgeons who prefer to secure their shunt with externally placed clamps.

Powered Phlebectomy Devices

Our TRIVEX powered phlebectomy system is comprised of capital equipment and disposables that enable removal of varicose veins. In this procedure, an illuminator is inserted through a small incision in the leg, enabling visualization of varicose veins. A second instrument removes the veins. Compared to conventional hook phlebectomy, this surgical procedure is faster and results in more complete vein removal through fewer incisions.

Radiopaque Tape

Our VascuTape Radiopaque Tape is a flexible, medical-grade tape with centimeter or millimeter markings printed with our proprietary radiopaque ink that is visible both to the eye and to an x-ray machine or fluoroscope. VascuTape Radiopaque Tape is applied externally to the skin and provides interventionalists with a simple way to cross-reference between the inside and the outside of a patient's body, allowing them to locate tributaries or lesions beneath the skin.

Remote Endarterectomy Devices

Our EndoRE line of remote endarterectomy devices are used to remove plaque from arteries in the leg in a minimally invasive procedure requiring a single incision in the groin. Our EndoRE devices are used to separate the plaque from the vessel, cut the far end of the plaque to free it for removal, and then withdraw it from the vessel.

Valvulotomes

Our 1.5mm HYDRO LeMaitre Valvulotomes, Over-The-Wire LeMaitre Valvulotomes, Tru-Incise valvulotomes, and LeMills Valvulotomes cut valves in the saphenous vein, a vein that runs from the foot to the groin, so the vein can function as an artery to carry blood past diseased arteries to the lower leg or the foot. We believe our valvulotomes reduce costs for hospitals by enabling less invasive bypass surgery to be performed with several small incisions rather than one continuous ankle-to-groin incision, thereby reducing the length of hospital stays and the likelihood of wound complications.

Vascular Grafts

Our AlboGraft woven and knitted vascular grafts are collagen-impregnated polyester grafts used to bypass or replace diseased arteries. They are available in both straight tube and bifurcated versions.

Our LifeSpan ePTFE Vascular Graft is an expanded polytetrafluoroethylene (ePTFE) graft used to bypass or replace diseased arteries and to create dialysis access sites. They are available in both regular and thin wall options and with an optional full or partial external spiral support. Our stepped and tapered LifeSpan models are designed to reduce the risk of steal syndrome and high cardiac output, complications that may arise in dialysis access grafts.

Our Omniflow II Biosynthetic Vascular Graft is a composite of cross-linked ovine collagen with a polyester mesh endoskeleton. It is used to bypass or replace diseased leg arteries, and to create dialysis access sites.

Our ProCol biologic graft is a bovine mesenteric vein vascular graft used for dialysis access in patients with a previously failed synthetic graft.

Through our recently acquired RestoreFlow allograft business, we provide human tissue cryopreservation services, in particular the processing and cryopreservation of peripheral vascular veins and arteries. Our RestoreFlow Allografts are cryopreserved human tissue grafts, including saphenous veins, femoral veins and arteries, and aortoiliac arteries. These allografts are used in variety of vascular reconstructions such as peripheral bypass, hemodialysis access, and aortic infections. Currently they are only available for distribution in the United States.

Vascular Patches

Our XenoSure Biologic Vascular Patch is made from bovine pericardium, and is used for precision endarterectomy vascular reconstruction.

Our AlboSure Vascular Patch is a polyester patch. Vascular surgeons use patches in conjunction with carotid endarterectomy, femoral endarterectomy, and other vascular reconstructions.

Vessel Closure Systems

Our AnastoClip AC and AnastoClip GC vessel closure systems attach vessels to one another with titanium clips instead of sutures. These vessel closure systems create an interrupted anastomosis which expands and contracts

as the vessel pulses, which surgeons believe improves the durability of the anastomosis. The AnastoClip AC closure system also facilitates compliant dura closure in neuro applications. Surgeons believe it does not penetrate the dura, which eliminates cerebrospinal fluid leakage from suture holes allowing for reduced operating room time.

Other Products

In some hospitals, vascular surgery procedures are sometimes performed by general surgeons. We also sell general surgery devices, primarily laparoscopic cholecystectomy devices. Our leading general surgery product is the Reddick Cholangiogram Catheter, which is used to inject dye into the cystic duct during laparoscopic cholecystectomy. In this procedure, the gall bladder is dissected and removed through small punctures in the abdomen. We also offer a laparoscopic accessory used in laparoscopic gall bladder removal.

Sales and Marketing

As of December 31, 2016, we employed 96 field sales representatives. We believe that the expansion of our direct sales force since 1998 has been a key factor in our success, and it remains one of our primary long-term strategies.

Outside our direct markets, we generally sell our products through country-specific distributors. We typically sign exclusive distribution agreements with distributors for terms of up to five years, frequently specifying minimum annual sales volumes and pricing. These agreements are renewable by mutual agreement between us and the distributor. From time to time, when we determine that it would be financially advantageous for us to sell directly in a country, we terminate our distributor(s) in that country. In August 2015, we agreed to terminate our agreement with a distributor in Finland in order to begin selling direct-to-hospital in Finland as of January 1, 2016. In December 2015, we signed a master distribution agreement with Meheco Yonstron Pharmaceutical Co. Ltd., a Chinese distribution and logistics company, and began selling our Chinese market products to Meheco in 2016. Meheco then sells to multiple subdistributors who then sell our products to Chinese hospitals.

In addition, we engage in direct marketing efforts, including direct mail and exhibitions at medical congresses, which we believe are important to our brand development and continued success. We believe that direct marketing allows us to market to vascular surgeons beyond the reach of our direct sales force.

We also provide training to medical professionals as means of promoting our products. We aim to add value to our vascular surgeon customers by providing training opportunities on specific vascular surgery procedures including, among others, in situ bypass, phlebectomy and interrupted anastomosis.

Research and Development

Our research and development has historically focused on developing enhancements and extensions to our existing product lines. Our current product development efforts are primarily focused on the open vascular space and are largely improvements to our existing devices. In 2016, our efforts were focused on expanding and enhancing our biologic product lines including Xenosure and Omniflow, as well as integrating newly acquired product lines. We continued work begun in 2015 on the development of a shunt flow monitor and furthered our efforts around approval of our elongated anastoclip device for neurosurgery in various geographies. We also made design changes to our powered phlebectomy device product line.

Our products are subject to our design control procedures throughout the various stages of product development. These procedures may include bench testing, animal testing, human procedures conducted by independent physicians, and post-market surveillance of product performance, as appropriate. We may use feedback received from independent physicians to demonstrate product functionality before commencing full-scale marketing of any product.

For 2016, 2015 and 2014, our research and development expenditures were \$6.1 million, \$5.5 million, and \$4.7 million, respectively, representing 7% of net sales in each of the three years. As of December 31, 2016, our research and development staff consisted of 14 full-time engineers and technicians.

Manufacturing and Processing

Our manufacturing facilities are located in Burlington, Massachusetts, where most of our product lines are produced. We also have facilities in North Melbourne, Australia, where our Omniflow II product line is produced, and Fox River Grove, Illinois where RestoreFlow allografts are processed, cryopreserved, stored and distributed.

Following the acquisition of new product lines, we typically integrate manufacturing of the newly acquired lines into our Burlington operations. In 2014 we fully transitioned XenoSure production to our Burlington facility, and we also transferred the manufacturing of the Clinical Instruments devices, which we acquired in 2013, to our Burlington facility. Our TRIVEX, EndoRE, Tru-Incise valvulotome and ProCol biologic graft products are currently manufactured by third parties; however, we expect to complete the transition of manufacturing the Tru-Incise valvulotome to our Burlington facility during 2017 and we expect the transition of manufacturing the ProCol biologic graft products to be complete in 2018, subject to regulatory approval. In addition, we expect to complete the renovation of our manufacturing facility in Burlington in 2017, in which we expect most of our biologic product lines will be produced or processed.

We manufacture certain proprietary components, assemble most of our devices ourselves, and inspect, test, and package all of our finished products. By designing and manufacturing many of our products from raw materials, and assembling and testing as many of our subassemblies and products as practical, we believe we can maintain better quality control, ensure compliance with applicable regulatory standards and internal specifications, limit outside access to our proprietary technology, ensure adequate product supply, and make design modifications in a timely manner. We have custom-designed proprietary manufacturing and processing equipment and have developed proprietary enhancements for existing production machinery. Our products are built to stock.

We process and cryopreserve human tissue provided to us by qualified tissue procurement organizations in the United States. Donated human tissue is procured from deceased donors by these organizations. We have strict specifications regarding tissue we will accept for processing relating to, among other things, the physical condition and characteristics of the tissue and the donor, the medical history of the donor and certain test results of the donated tissue. We also use various supplies in connection with the processing and cryopreservation of human tissue, including certain proprietary solutions and antibiotics.

Our management information systems provide us with the ability to evaluate our performance, collect business intelligence, and make better strategic decisions. These systems include order entry, invoicing, on-line inventory management, lot traceability, purchasing, shop floor control, and shipping and distribution analysis, as well as various accounting-oriented functions. During day-to-day operations, these systems enable us to track our products from the inception of an order through the manufacturing process and then ultimately through delivery of the product to the customer.

We purchase components from, and have certain product lines manufactured by, third parties. Most of our components are readily available from several supply sources, but we do rely on single- and limited-source suppliers for several of our key product components and our third-party-manufactured products. We do not have contractual arrangements with many of these suppliers and manufacturers, and we order our supplies and product on an as-needed basis. To date, we have not experienced any material disruption in the adequate supply from existing sources of product and components, but there is no guarantee that we will not experience such disruptions in the future.

Our Burlington and North Melbourne manufacturing facilities have been certified to ISO 13485:2003 quality management system standards, which enables us to satisfy certain regulatory requirements of the European Union, Canada, and other foreign jurisdictions. Our Fox River Grove, Illinois facility has been accredited by the American Association of Tissue Banks for the processing, storage and distribution of cardiac and vascular tissue for transplantation and licensed by certain state agencies. Our manufacturing and processing facilities are subject to periodic inspections by various regulatory authorities and Notified Bodies (described below) to ensure compliance with domestic and non-U.S. regulatory requirements. See "Government Regulation" for further information. In February 2013, our Burlington facilities were audited by the U.S. Food and Drug Administration (FDA), and in November 2014, and July and November 2015, we underwent inspections by our European Notified Body. In February 2016, our Fox River Grove facility was inspected by the FDA. The results of these inspections were satisfactory.

Competition

The segments in which our product lines compete are characterized by change resulting from technological advances and scientific discoveries. No one company competes against all of our product lines; rather, we compete with a range of companies. Notable larger competitors include Applied Medical Resources Corporation, Baxter International, Inc., Boston Scientific Corporation, Cardiovascular Systems, Inc., Medtronic, C.R. Bard, Inc., CryoLife, Inc., Edwards Lifesciences Corporation, Getinge AB, LifeNet Health, Inc., Terumo Medical Corporation, and W. L. Gore & Associates.

The success of our products relies on effective service support as well as superior product technology, quality, product and service availability, reliability, ease of use, cost-effectiveness, physician familiarity, and brand recognition. While we also compete on the basis of price, our products that are more technologically advanced than those of our competitors are sometimes sold at higher prices than those of our competitors. We believe that our continued success will depend on our ability to broaden and optimize our direct sales channel, acquire or develop additional complementary vascular device products, obtain regulatory and reimbursement approvals, maintain sufficient inventory, obtain patent or other product protections and attract and retain skilled personnel. We also compete on the basis of procedure type. The treatment of peripheral vascular disease has experienced a shift from open vascular surgery towards minimally invasive endovascular procedures, and many of our products are used primarily or exclusively in open vascular surgery procedures. Our ability to compete effectively with our competitors relies on keeping pace with existing or new product and technology offerings in the vascular device market, and the minimally invasive endovascular procedure segment in particular.

Many of our competitors have substantially greater financial, technological, research and development, regulatory, marketing, sales, and personnel resources than we do. Certain of these competitors are able to manufacture at lower costs and may therefore offer comparable products at lower prices, especially commodity products such as dacron and ePTFE grafts. Certain of these competitors may also have greater experience in developing and further improving products, obtaining regulatory approvals, and manufacturing and marketing such products. In the case of vascular allografts, certain competitors may have an advantage in sourcing tissue due to higher volume purchases and longer term relationships from tissue procurement organizations. Additionally, certain of our competitors may obtain patent protection or regulatory approval or clearance, or achieve product commercialization, before us, any of which could materially adversely affect us.

Intellectual Property

We believe that our success is dependent, to a certain extent, on the development and maintenance of proprietary aspects of our technologies. We rely on a combination of patents, trademarks, trade secret laws, and confidentiality and invention assignment agreements to protect our intellectual property rights.

We maintain and pursue patents in the United States, Europe and other strategic locations relating to various aspects of our products and/or manufacturing processes. The majority of our issued U.S. patents are set to expire at various times from 2020 to 2032.

Generally, for products that we believe are appropriate for patent protection, we will attempt to obtain patents in the United States and key markets of the European Union. However, depending on circumstances, we may not apply for patents in all or any of those jurisdictions, or we may pursue patent protection elsewhere.

Certain aspects of our products are covered by patents held by third parties. We manufacture, market, and sell these products pursuant to license agreements with these third parties. These arrangements require us to pay royalties, typically determined as a percentage of our net sales for the underlying product. If we fail to make these payments or otherwise fail to observe the terms of these agreements, we may lose our ability to sell these products. For example, we manufacture, market, and sell our LifeSpan Vascular Grafts, Periscope Dissectors and TRIVEX products pursuant to licenses with third-parties.

We believe that our strong brands have been an important factor in our success. We rely on common law and registered trademarks to protect our product brands. Some of our registered trademarks are LeMaitre, XenoSure, Pruitt, VascuTape, Glow 'N Tell, and Reddick, each of which is registered in the United States and the European Union, and in certain cases in other foreign countries.

We rely on trade secret protection for certain unpatented aspects of other proprietary technology. Many of our products are not protected by patents. Patent protection is not available where we acquire a commercialized product that is not patented, such as the ProCol vascular graft. In the past, other companies have independently developed or otherwise acquired comparable or substantially equivalent proprietary information and techniques, and there can be no assurance that others will not do so in the future or otherwise gain access to our proprietary technology or disclose such technology, or that we can meaningfully protect our trade secrets. We have a policy of requiring employees and consultants to execute confidentiality agreements upon the commencement of an employment or consulting relationship with us. Our confidentiality agreements also require our employees to assign to us all rights to any inventions made or conceived during their employment with us. We also generally require our consultants to assign to us any inventions made during the course of their engagement by us. There can be no assurance, however, that these agreements will provide meaningful protection or adequate remedies for us in the event of unauthorized use, transfer, or disclosure of confidential information or inventions.

The laws of foreign countries generally do not protect our proprietary rights to the same extent as do the laws of the United States and we may experience more difficulty enforcing our proprietary rights in certain foreign jurisdictions.

See "Item 1A. Risk Factors" for a description of certain risks associated with our intellectual property.

Government Regulation

Medical devices and human tissues are subject to regulation by the FDA, and, in some instances, other federal and state authorities and foreign governments.

United States Regulation of Medical Devices

Most of our products are medical devices subject to extensive regulation by the FDA under 21 United States Code Chapter 9, the Federal Food, Drug, and Cosmetic Act (the FDCA). FDA regulations govern, among other things, product development, testing, manufacturing, packaging, labeling, storage, clearance or approval, advertising and promotion, sales and distribution, and import and export.

Premarket Pathways

Most medical devices must receive either 510(k) clearance or Premarket Application approval (PMA approval) from the FDA prior to commercial distribution. Devices deemed to pose relatively less risk are placed in either class I or II, which requires the manufacturer to submit a premarket notification requesting permission

for commercial distribution; this is known as 510(k) clearance. Some low-risk devices are exempted from this requirement. Class II devices may be subject to special controls, such as performance standards and FDA guidelines that are not applied to class I devices. Devices deemed by the FDA to pose the greatest risk, such as life-sustaining, life-supporting, or implantable devices, or devices deemed not substantially equivalent to a previously 510(k)-cleared device or to a pre-amendment class III device (*i.e.*, one in commercial distribution before May 28, 1976) for which PMA applications have not been called, are placed in class III, which generally requires PMA approval. In all cases, a user fee is required for 510(k) submissions and PMA applications, which in the case of PMA applications can be very costly.

510(k) Clearance. To obtain 510(k) clearance, a manufacturer must submit a premarket notification demonstrating that the proposed device is substantially equivalent in intended use and performance to a "predicate device" (i.e., a previously 510(k)-cleared class I or class II device or a preamendment class III device for which the FDA has not yet called for PMA applications). The FDA's 510(k) clearance pathway usually takes from three to twelve months, but it can take longer. In reviewing a premarket notification, the FDA may request additional information, including clinical data. All of our devices currently sold in the United States are marketed pursuant to the 510(k) clearance, with the exception of our ProCol biologic vascular graft.

After a device receives 510(k) clearance, any modification that could significantly affect its safety or effectiveness, or that would constitute a major change as specified by FDA guidelines, requires a new 510(k) clearance. The FDA requires each manufacturer to make this determination in the first instance, but the FDA can review any such decision. If the FDA disagrees with a manufacturer's decision not to seek a new 510(k) clearance, the agency may retroactively require the manufacturer to seek 510(k) clearance. The FDA also can require the manufacturer to cease marketing and/or recall the modified device until 510(k) clearance or PMA approval is obtained. Also, the manufacturer may be subject to significant regulatory fines or penalties.

PMA Approval. The PMA approval pathway requires proof of the safety and effectiveness of the proposed device to the FDA's satisfaction, making this pathway much more costly, lengthy, and uncertain. A PMA application must provide extensive preclinical and clinical trial data, as well as detailed information about the device and its components regarding, among other things, device design, manufacturing, and labeling. As part of the PMA review, the FDA will typically inspect the manufacturer's facilities for compliance with the Quality System Regulation (QSR) which imposes elaborate testing, control, documentation, and other quality assurance procedures on the manufacturing process.

If the FDA approves a PMA, the approved indications or claims may be more limited than those originally sought. The PMA can include post-approval conditions that the FDA believes to be necessary to ensure the safety and effectiveness of the device including, among other things, restrictions on labeling, promotion, sale, and distribution. Failure to comply with the conditions of approval can result in material adverse enforcement action, including the loss or withdrawal of the approval. Even after approval of a PMA, a new PMA or PMA supplement is required if the device or its labeling or manufacturing process are modified. Supplements to a PMA often require the submission of the same type of information required for an original PMA, except that the supplement is generally limited to that information needed to support the proposed change from the product covered by the original PMA.

Clinical Trials. A clinical trial is typically required to support a PMA application and is sometimes required to support 510(k) clearance. In some cases, one or more smaller feasibility Investigational Device Exemption (IDE) studies may precede a pivotal IDE clinical trial intended to comprehensively demonstrate the safety and effectiveness of the investigational device. All clinical studies of investigational devices must be conducted in compliance with the FDA's extensive requirements. If an investigational device could pose a significant risk to patients (as defined in the regulations), the FDA, prior to initiation of clinical use, must approve an IDE application showing that it is safe to test the device in humans and that the testing protocol is scientifically sound. A non-significant risk device does not require submission to the FDA of an IDE application. Both significant risk and non-significant risk investigational devices require approval from institutional review boards (IRBs) at the

study centers where the device will be used. The FDA and the IRB at each institution at which a clinical trial is being performed may suspend a clinical trial at any time for various reasons, including a belief that the subjects are being exposed to an unacceptable health risk. During a study, the sponsor must comply with the FDA's IDE requirements for investigator selection, trial monitoring, reporting, record keeping, and prohibitions on the promotion of investigational devices. The investigators must obtain patient informed consent, rigorously follow the investigational plan and study protocol, control the disposition of investigational devices, and comply with all reporting and record-keeping requirements. Required records and reports are subject to inspection by the FDA. Prior to granting PMA approval, the FDA typically inspects the records relating to the conduct of the study and the clinical data supporting the PMA application for compliance with IDE requirements.

Although the QSR does not fully apply to investigational devices, the requirement for controls on design and development does apply. The sponsor also must manufacture the investigational device in conformity with the quality controls described in the IDE application and any conditions of IDE approval that FDA may impose with respect to manufacturing.

Historically, our products have been introduced into the market using the 510(k) clearance procedure, and we have not used the more burdensome PMA process for any of the products that we currently market or sell in the United States, other than our ProCol vascular graft, which had PMA approval at the time we acquired the device. If we were to seek approval for our Omniflow II biosynthetic vascular graft, for example, we would be required to follow the PMA process.

Postmarket Regulation

After a device is placed on the market, regardless of the classification or premarket pathway, significant regulatory requirements apply. These include:

- manufacturing establishment registration and device listing with the FDA;
- the QSR, which requires finished device manufacturers, including third-party or contract manufacturers, to follow stringent design, testing, control, documentation, and other quality assurance procedures in all aspects of manufacturing;
- labeling regulations and FDA prohibitions against the promotion of products for uncleared, unapproved, or off-label uses and other requirements related to promotional activities;
- 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 the malfunction were to
 recur; and
- corrections and removal reporting regulations, which require that manufacturers report to the FDA any field corrections and product recalls or removals if undertaken to reduce a risk to health posed by the device or to remedy a violation of the FDCA that may present a risk to health.

We are subject to inspection and marketing surveillance by the FDA to determine our compliance with regulatory requirements. Our most recent FDA inspection was in February 2013, the result of which was satisfactory. Non-compliance with applicable FDA requirements can result in, among other things, public warming letters, fines, injunctions, civil penalties, recall or seizure of products, total or partial suspension of production, failure of the FDA to grant marketing approvals, withdrawal of marketing approvals, a recommendation by the FDA to disallow us to enter into government contracts, and criminal prosecutions. The FDA also has the authority to request repair, replacement, or refund of the cost of any device manufactured or distributed by us. In the event that one of our suppliers fails to maintain compliance with our quality requirements, we may have to qualify a new supplier and could experience manufacturing delays as a result.

Non-U.S. sales of medical devices manufactured in the United States that are not approved or cleared by the FDA for use in the United States, or are banned or deviate from lawful performance standards, are subject to FDA export requirements. Before exporting such products to a foreign country, we must first comply with the FDA's regulatory procedures for exporting unapproved devices.

United States Regulation of Human Tissue

FDA

Our allografts are subject to extensive regulation by the FDA under Title 21 of the Code of Federal Regulations, Part 1271 (Human Cells, Tissues, and Cellular and Tissue-Based Products). These regulations were promulgated under Section 361 of the Public Health Service Act, which authorized the FDA to issue regulations to prevent the spread of communicable disease. Under these regulations, the FDA requires registration of establishments that manufacture human cells, tissues, and cellular and tissue-based products and establishes donor-eligibility, current good tissue practice and other procedures to prevent the introduction, transmission, and spread of communicable diseases by such products, including through donor screening and testing. Our Fox River Grove, Illinois facility is registered with the FDA's Center for Biologics Evaluation and Research as required by the regulations. The regulations also provide for the inspection of tissue establishments by the FDA. The FDA most recently inspected our Fox River Grove, Illinois facility in February 2016 and the results of that inspection were satisfactory. In the event of non-compliance with these regulations, the FDA may issue a warning letter, order the recall and/or destruction of tissues and/or order the suspension or cessation of processing and preservation of new tissues.

AATB

We voluntarily comply with the standards of the tissue bank industry's accreditation organization, the American Association of Tissue Banks (the AATB). The AATB has established standards for tissue banking and administers an accreditation program. Compliance with the AATB's standards are a predicate to accreditation, which must be renewed every three years. Our Fox River Grove, Illinois facility has been accredited by the AATB for the processing, storage and distribution of cardiac and vascular tissue for transplantation through May 13, 2018. The AATB is entitled to inspect accredited members at any time. The AATB most recently inspected our Fox River Grove, Illinois facility in January 2015, and the results of that inspection were satisfactory.

NOTA

Under the National Organ Transplant Act, it is unlawful for any person or entity to knowingly acquire, receive, or otherwise transfer any human organ for valuable consideration for use in human transplantation if the transfer affects interstate commerce. However, "valuable consideration" excludes the reasonable payments associated with the removal, transportation, implantation, processing, preservation, quality control, and storage of a human organ. We believe the compensation we receive for the processing and cryopreservation services we provide with respect to our vascular allografts falls within this statutory exception.

State Regulation

Certain states regulate the processing, storage and distribution of human tissue. We are licensed or registered, as applicable, with California, Delaware, Florida, Illinois, Maryland, New York and Oregon. The regulatory agencies of these states may inspect our Fox River Grove, Illinois facility from time to time to monitor compliance with applicable state regulations.

Other U.S. Regulations

We, and our products and services, are also subject to a variety of state and local laws in those jurisdictions where our products and services are or will be marketed or distributed, and federal, state, and local laws relating to matters such as safe working conditions, manufacturing practices, environmental protection, fire hazard control, and disposal of hazardous or potentially hazardous substances. We are subject to various federal and state laws governing our relationships with the physicians and others who purchase or make referrals for our products. For instance, federal law prohibits payments of any form that are intended to induce a referral for any

item payable under Medicare, Medicaid, or any other federal healthcare program. Many states have similar laws. There can be no assurance that we will not be required to incur significant costs to comply with such laws and regulations now or in the future or that such laws or regulations will not have a material adverse effect upon our ability to do business.

We are subject to federal, state, and local laws, rules, regulations, and policies governing the use, generation, manufacture, storage, air emission, effluent discharge, handling, and disposal of certain hazardous and potentially hazardous substances used in connection with our operations. Although we believe that we have complied with these laws and regulations in all material respects and to date have not been required to take any action to correct any noncompliance, there can be no assurance that we will not be required to incur significant costs to comply with environmental regulations in the future.

Non-U.S. Regulation of Medical Devices

Sales of medical devices are subject to regulatory requirements in many countries. The regulatory review process may vary greatly from country to country. The European Union has adopted numerous directives and standards relating to medical devices regulating their design, manufacture, clinical trials, labeling, and adverse event reporting, including the Medical Devices Directive (93/42/EEC) (the Directive), which is applicable to our products. Devices that comply with the requirements of the Directive are entitled to bear a CE mark, indicating that the device conforms with the essential requirements of the applicable directive and can be commercially distributed in countries that are members of the European Union, as well as Iceland, Lichtenstein, Norway, and Switzerland. Each member state of the European Union has implemented the directives into its respective national law and has each established a "Competent Authority" to apply the directive in its territory.

The Directive defines a classification system placing devices into Class I, IIa, IIb, or III, depending on the risks and characteristics of the medical device. The Directive also defines the essential requirements that devices must meet before being placed on the market, establishes assessment procedures for approving a device for marketing, and creates mechanisms for national authorities to manage implementation or to intervene when public health requires. Essential requirements include manufacturing, design, performance, labeling, and safety requirements, and may include providing certain clinical data. These requirements vary based on the type of the device and other related factors.

A manufacturer of low-risk devices typically may demonstrate conformity to the essential requirements based on a self-declaration. The European Standardization Committees have adopted numerous harmonized standards for specific types of medical devices. Compliance with relevant standards establishes a presumption of conformity with the essential requirements. Manufacturers of higher-risk devices generally must use a "Notified Body"—an appointed independent third party to assess conformity. This third-party assessment may consist of an audit of the manufacturer's quality system and specific testing of the manufacturer's devices. An assessment by a Notified Body in one country within the European Union is generally required in order for a manufacturer to commercially distribute the product throughout the European Union. Most of our devices are considered higher-risk devices that require Notified Body assessment.

The European medical device laws also address the advertising and promotion of medical devices, clinical investigations, and requirements for handling adverse events. Post-market surveillance of medical devices in the European Union is generally conducted on a country-by-country basis; however, the Directive sets forth certain specific requirements for reporting adverse events. The Medical Device Vigilance system is the mechanism by which adverse event reporting is managed and monitored in the European Union.

In the event that any of our products proves to be defective, we can voluntarily recall, or the FDA or foreign equivalent could require us to implement a recall of, any of our products and, if someone is harmed by a malfunction or a product defect, we may experience product liability claims for such defects. Any corrective action, whether voluntary or involuntary, as well as defending ourselves in a lawsuit, will require the dedication

of our time and capital and may harm our reputation and financial results. Future recalls or claims could also result in significant costs to us and significant adverse publicity, which could harm our ability to market our products in the future.

In some cases, we rely on our non-U.S. distributors or third party agents to obtain premarket approvals, complete product registrations, comply with clinical trial requirements, and complete those steps that are customarily taken in the applicable jurisdictions to comply with governmental and quasi-governmental regulation. In the future, we expect to continue to rely on distributors and agents in this manner where appropriate.

Canada regulates the import and sale of medical devices through Health Canada (HC). HC classifies medical devices into four classifications, with Class I being the lowest risk and Class IV being the highest. Class I and II devices are often cleared for sale after they are CE marked or listed on the company's ISO certification and filed via fax-back applications, which are typically processed relatively quickly. Higher classification risk devices (Class III and IV) require filing of dossiers that resemble US 510(k) applications. These applications can range in cost and typically take longer for approval.

In Japan, the Ministry of Health, Labor and Welfare (MHLW) regulates medical devices through the Pharmaceutical Affairs Law, which was reformed effective April 1, 2005. The revisions to Japan's regulations have resulted in longer lead times for product registration.

Australia regulates the import and sale of medical devices through the Therapeutic Goods Administration (TGA). The TGA has built its regulatory framework around similar requirements to those issued in Europe. As such, many medical devices (those with a lower risk profile) may gain relatively fast marketing clearance using their existing EU-issued CE marking. Higher risk devices (those in EU/Aus Class III) must go through a full design review which can be costly and take longer to complete. Issued licenses for medical devices do not require renewal, but do require an annual fee to remain active in the TGA registry of devices. Australia requires all foreign manufacturers to have an in country 'sponsor' who must have a licensed business inside of Australia. After the formation of our Australian subsidiary in 2013, we transferred out licenses from our third-party license holders to our subsidiary.

In China, the China Food and Drug Administration (CFDA) Medical Device Division regulates and must approve all medical devices to be marketed and sold in China. China has a three-class risk classification system, with Class I being the lowest risk and Class III being the highest risk. Home country approval (510(k) or PMA clearance) is required as a prerequisite to any application. Additionally, the CFDA often tests finished devices at its own testing laboratory to confirm each device's specifications. The approval process is typically lengthy. As of December 31, 2016, CFDA licenses are valid for five years from date of issuance and require renewal prior to expiration. The CFDA requires all companies located outside of China to appoint a legal entity who maintains a registered business inside of China as the license holder. After the formation of our Chinese subsidiary in 2015, we transferred our licenses from our third-party license holders to our subsidiary.

There can be no assurance that new laws or regulations or new interpretations of laws and regulations regarding the release or sale of medical devices will not delay or prevent sale of our current or future products.

Third-Party Reimbursement

United States

Healthcare providers that purchase medical devices generally rely on third-party payors, including the Medicare and Medicaid programs and private payors (such as indemnity insurers, employer group health insurance programs, and managed care plans) to reimburse all or part of the cost of those products. As a result, demand for our products is and will continue to be dependent in part on the coverage and reimbursement policies

of these payors. The manner in which reimbursement is sought and obtained varies based upon the type of payor involved and the setting in which the product is furnished and utilized. For example, Medicare reimbursement policies favor outpatient treatment. Furthermore, payments from Medicare, Medicaid, and other third-party payors are subject to legislative and regulatory changes and are susceptible to budgetary pressures.

In the United States, third-party payors generally pay healthcare providers directly for the procedures they perform and in certain instances for the products they use. Our sales volumes depend on the extent to which third-party payors cover our products and the procedures in which they are used. In general, a third-party payor only covers a medical product or procedure when the plan administrator is satisfied that the product or procedure is medically necessary because it improves health outcomes, including quality of life or functional ability, in a safe and cost-effective manner. Even if a device has received clearance or approval for marketing by the FDA, there is no assurance that third-party payors will cover the cost of the device and related procedures in which the device is used.

In many instances, third-party payors cover the procedures performed using our products using price fee schedules that do not vary reimbursement to reflect the cost of the products and equipment used in performing those procedures. In other instances, payment or reimbursement is separately available for the products and equipment used, in addition to payment or reimbursement for the procedure itself. Even if coverage is available, third-party payors may place restrictions on the circumstances in which they provide coverage or may offer reimbursement that is not sufficient to cover the cost of our products. Many of the products that compete with ours are less expensive. Therefore, although coverage may be available for our products and the related procedures, the levels of approved coverage may not be sufficient to justify using our products instead of those of competitors.

In addition, particularly in concert with the Patient Protection and Affordable Care Act, many third-party payors are moving to managed care systems in which providers contract to provide comprehensive healthcare for a fixed cost per person rather than the traditional fee for service model. Managed care providers often attempt to control the cost of healthcare by authorizing fewer elective surgical procedures. Under current prospective payment systems, such as the diagnosis-related group system and the hospital out-patient prospective payment system, both of which are used by Medicare and in many managed care systems used by private third party payors, the reimbursement for our products will be incorporated into the overall reimbursement of a procedure, and there will be no separate reimbursement for our products. As a result, we cannot be certain that hospital administrators and physicians will purchase our products.

If hospitals and physicians cannot obtain adequate reimbursement for our products or the procedures in which they are used, our business, financial condition, and results of operations could suffer a material adverse impact.

Non-U.S.

Our success in non-U.S. markets will depend largely upon the availability of reimbursement from the third-party payors through which healthcare providers are paid in those markets. Reimbursement and healthcare payment systems in non-U.S. markets vary significantly by country. The main types of healthcare payment systems are government sponsored healthcare and private insurance. As in the United States, reimbursement is subject to legislative and regulatory changes and is susceptible to budgetary pressures. Reimbursement approval must be obtained individually in each country in which our products are marketed. Outside the United States, we may pursue reimbursement approval in those countries in which we sell directly to the hospital. In other markets, we generally rely on the distributors who sell our products to obtain reimbursement approval in those countries in which they will sell our products. There can be no assurance that reimbursement approval will be received.

Fraud and Abuse Laws

We may directly or indirectly be subject to various federal and state laws pertaining to healthcare fraud and abuse, including anti-kickback laws. In particular, the federal healthcare program Anti-Kickback Statute prohibits persons from knowingly and willfully soliciting, offering, receiving, or providing remuneration, directly or indirectly, in exchange for or to induce either the referral of an individual, or the furnishing, arranging for, or recommending a good or service for which payment may be made in whole or part under federal healthcare programs, such as the Medicare and Medicaid programs. Penalties for violations include criminal penalties and civil sanctions such as fines, imprisonment, and possible exclusion from Medicare, Medicaid, and other federal healthcare programs. The Anti-Kickback Statute is broad and prohibits many arrangements and practices that are lawful in businesses outside of the healthcare industry. In implementing the statute, the Office of Inspector General, or OIG, has issued a series of regulations, known as the "safe harbors." These safe harbors set forth provisions that, if all their applicable requirements are met, will assure healthcare providers and other parties that they will not be prosecuted under the Anti-Kickback Statute. The failure of a transaction or arrangement to fit precisely within one or more safe harbors does not necessarily mean that it is illegal or that prosecution will be pursued. However, conduct and business arrangements that do not fully satisfy each applicable element of a safe harbor may result in increased scrutiny by government enforcement authorities, such as the OIG.

Patient Protection and Affordable Care Act

In March 2010, significant reforms to the U.S. healthcare system were adopted in the form of the Patient Protection and Affordable Care Act (the PPACA). In January 2017, Congress voted to adopt a budget resolution for fiscal year 2017, or the Budget Resolution, that authorizes the implementation of legislation that would repeal portions of the PPACA. Further, on January 20, 2017, President Trump signed an Executive Order directing federal agencies with authorities and responsibilities under the PPACA to waive, defer, grant exemptions from, or delay the implementation of any provision of the PPACA that would impose a fiscal or regulatory burden on states, individuals, healthcare providers, health insurers, or manufacturers of pharmaceuticals or medical devices. Congress also could consider subsequent legislation to replace elements of the PPACA that are repealed. While the future of PPACA is uncertain as of the date of the filing of this Annual Report due to the Budget Resolution and President Trump's executive order, we continue to comply with its requirements. For example, we continue to comply with the Physician Payments Sunshine Act, which was enacted as part of the PPACA and requires detailed public disclosure of certain payments and "transfers of value" from us to healthcare professionals, such as the payment of royalties, compensation for services provided such as training, consulting, and reimbursement for travel and meal expenses. Certain states also require us to disclose similar information or even prohibit some forms of these payments and may continue to do so regardless of the repeal or replacement the PPACA.

Employees

We had 397 employees, including 380 full-time employees, at December 31, 2016.

Financial Information by Business Segment and Geographic Data

We operate in one reportable industry segment: the design, marketing, sales, service and technical support of medical devices and implants for the treatment of peripheral vascular disease. Our chief operating decision maker is our chief executive officer. Our chief executive officer reviews financial information, accompanied by information about revenue by geographic region for purposes of allocating resources and evaluating financial performance. Information about segment revenue is included in Note 12 to our Consolidated Financial Statements which are included elsewhere in this Annual Report.

Customers

Our sales are not dependent on any single customer or distributor, and we continue to expand our distribution channel worldwide through direct and indirect sales forces. No single customer accounted for more than 2% of our net sales in 2016.

Corporate Information

We were incorporated in Massachusetts on November 28, 1983, as Vascutech, Inc. On June 16, 1998, we were reincorporated in Delaware, and on April 6, 2001, we changed our name to LeMaitre Vascular, Inc. On October 19, 2006, we executed our initial public offering, and our common stock trades under the symbol "LMAT." Our principal executive offices are located at 63 Second Avenue, Burlington, Massachusetts 01803, and our telephone number is (781) 221-2266.

Where You Can Find More Information

Our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 are available through the investor relations portion of our website (www.lemaitre.com) free of charge as soon as reasonably practicable after we electronically file such material with, or furnish it to, the Securities and Exchange Commission, (SEC). Information on our investor relations page and on our website is not part of this Annual Report on Form 10-K or any of our other securities filings unless specifically incorporated herein or therein by reference. In addition, our filings with the Securities and Exchange Commission may be accessed through the Securities and Exchange Commission's Electronic Data Gathering, Analysis and Retrieval (EDGAR) system at www.sec.gov. You may also read and copy any materials filed with the Commission at the SEC's Public Reference Room at 100 F Street, NE., Washington, DC 20549, on official business days during the hours of 10 a.m. to 3 p.m. Please call the SEC at 1-800-SEC-0330 for further information on the operation of the Public Reference Room. All statements made in any of our securities filings, including all forward-looking statements or information, are made as of the date of the document in which the statement is included, and we do not assume or undertake any obligation to update any of those statements or documents unless we are required to do so by law. In addition, our Corporate Governance Guidelines, Code of Business Conduct and Ethics and Charters of our Audit, Compensation and Nominating and Corporate Governance Committees are available on our website and are available in print to any stockholder who requests such information.

Item 1A. Risk Factors

The following important factors, among others, could cause our actual operating results to differ materially from those indicated or suggested by forward-looking statements made in this Form 10-K or presented elsewhere by management from time to time. Investors should carefully consider the risks described below before making an investment decision. The risks described below are not the only ones we face. Additional risks not presently known to us or that we currently believe are not material may also significantly impair our business operations. Our business could be harmed by any of these risks. The trading price of our common stock could decline due to any of these risks, and investors may lose all or part of their investment.

Risks Related to Our Business

We may experience significant fluctuations in our quarterly and annual results.

Fluctuations in our quarterly and annual financial results have resulted and will continue to result from numerous factors, including:

- changes in demand for the products and services we sell;
- · increased product and price competition, due to market conditions, the regulatory landscape or other factors;
- changes in the mix of products and services we sell;
- our pricing strategy with respect to different product lines and services;
- strategic actions by us, such as acquisitions of businesses, products, or technologies;

- effects of domestic and foreign economic conditions and exchange rates on our industry and/or customers;
- the divestiture or discontinuation of a product line or other revenue generating activity;
- the relocation and integration of manufacturing or processing operations and other strategic restructuring;
- · regulatory actions that may necessitate recalls of our products or warning letters that negatively affect the markets for our products;
- our determination whether or not to continue the payment of quarterly cash dividends;
- · costs incurred by us in connection with the termination of contractual and other relationships, including those of distributors or agents
- our ability to collect outstanding accounts receivable in selected countries outside of the United States;
- changes in tax laws in the jurisdictions in which we do business;
- the expiration or utilization of deferred tax assets such as net operating loss carry-forwards;
- market reception of our new or improved product and service offerings; and
- the loss of any significant customer, especially in regard to any product or service that has a limited customer base.

These factors, some of which are not within our control, may cause the price of our common stock to fluctuate substantially. If our quarterly operating results fail to meet or exceed the expectations of securities analysts or investors, our stock price could drop suddenly and significantly. We believe the quarterly comparisons of our financial results are not always meaningful and should not be relied upon as an indication of our future performance.

We may not maintain our recent levels of profitability.

While we reported growth in operating and net income in each of the years ended December 31, 2016, 2015 and 2014, there can be no assurance we will continue to achieve significant net sales growth and/or profit growth in the future. If, for example, we are unable to effectively manage our operating expenses associated with the increase in the number of our sales personnel in 2016, we may need to reduce our operating expenses in other areas in order to maintain or improve operating profitability. Decreased investment levels may inhibit future growth in net sales and earnings.

Additionally, our ability to maintain and increase profitability will be influenced by many factors, including:

- the level and timing of future sales, manufacturing costs and operating expenditures;
- market acceptance of our new products and services;
- the productivity of our direct sales force and distributors;
- fluctuations in foreign currency exchange rates;
- our ability to successfully build direct sales organizations in new markets;
- our ability to successfully acquire and develop competitive products;
- our ability to successfully integrate acquired businesses, products, services or technologies;
- the impact on our business of competing products, technologies, and procedures;
- our ability to obtain or maintain regulatory approvals for our products in new and existing markets;
- the cost of litigation, if any; and
- · changes in tax laws.

If we are unable to expand our product and service offerings, we may not achieve our growth objectives and our results of operations could suffer.

The treatment of peripheral vascular disease is shifting from open vascular surgery to minimally invasive endovascular procedures, and many of our products are used primarily or exclusively in open vascular surgery procedures. We market and sell our products primarily to vascular surgeons, and the majority of our marketing efforts and sales relate to products used in open vascular surgery rather than in endovascular procedures.

We may not be able to compete effectively with our competitors unless we can keep pace with existing or new products, services and technologies in the vascular device market and the minimally invasive endovascular procedure segment, in particular. Our success in developing and commercializing new products and new versions of our existing products and services is affected by our ability to:

- recognize in a timely manner new market trends and customer needs;
- identify products or services that address those trends or needs;
- obtain regulatory clearance or approval of new products and technologies;
- successfully develop cost-effective manufacturing processes for such products;
- commercially introduce such products, services and technologies; and
- achieve market acceptance.

If we are unable to expand our product or service offerings, we may not achieve our growth objectives and our results of operations as well as our stock price could suffer.

Our call point focus on the vascular surgeon with a product portfolio largely used in open surgical procedures may be too narrow, which may adversely affect our future sales.

The treatment of peripheral vascular disease continues to shift from open vascular surgery to minimally invasive endovascular procedures. We market and sell our products primarily to vascular surgeons, and the majority of our marketing efforts and sales relate to products used in open vascular surgery rather than in endovascular procedures.

In addition to performing traditional open surgical procedures, vascular surgeons in growing numbers also perform minimally invasive, image-guided interventional procedures for peripheral vascular disease. However, vascular surgeons may not adopt these procedures in the numbers we expect and instead these procedures may be largely performed by interventional cardiologists and interventional radiologists. Many of our competitors have focused their sales efforts on these interventionalists. If interventional cardiologists and interventional radiologists perform a greater percentage of these new procedures than we expect, our net sales may decline.

Moreover, demographic trends and other factors, such as reimbursement rates, are also driving vascular surgeons in the United States and potentially in other markets to increasingly specialize in certain kinds of procedures, such as the creation and maintenance of dialysis access sites and endovascular therapies. Vascular surgeon training programs may focus on those therapies to the exclusion of open vascular procedures. If there is a decline in vascular surgeons training in open vascular procedures in favor of training in minimally invasive endovascular procedures, this could limit the number of vascular surgeons using our products due to lack skills in of open vascular procedures. Further, even those physicians trained in open procedures may discontinue performing them if there is a lack of demand. If this trend continues, it could lead to the fragmentation of our customer base, which would reduce cross-selling opportunities and the efficiency of each sales call by our sales representatives, which in turn could negatively impact our business.

We may acquire businesses and assets in the future. We may experience difficulties in completing the integration of these acquisitions into our business, or we may not realize the anticipated benefits of these acquisitions.

In order to expand our product offerings, we have completed 19 acquisitions, and a key part of our strategy is to acquire additional businesses, products, or technologies in the future. Our growth strategy depends, in part, upon our ability to identify, negotiate, complete, and integrate suitable acquisitions. If we are unable to complete acquisitions on satisfactory terms or at all, our growth objectives and sales could be negatively affected.

Even if we complete acquisitions, we may experience:

- difficulties in integrating any acquired businesses, personnel, and products into our existing business;
- difficulties or delays in integrating manufacturing operations into our existing business or successfully replicating manufacturing processes at new manufacturing facilities on a cost-effective basis;
- · the sudden reduction in volume or loss of orders from a key customer, particularly where the acquired company had concentrated sales;
- diversion of our management's time and attention from other business concerns;
- higher costs of integration than we anticipated;
- unknown or unanticipated liabilities included as part of the acquisition;
- disputes or litigation with former owners related to contingent payments, liabilities assumed or not assumed or other matters;
- challenges in complying with new regulatory requirements to which we were not previously subject;
- · increased regulatory scrutiny;
- difficulties in retaining key employees of the acquired business who are necessary to manage these acquisitions;
- difficulties if the acquired company is remote or inconvenient to our Burlington, Massachusetts, headquarters, such as the operations we
 acquired in 2014 in Australia;
- difficulties or delays in transitioning clinical studies or unfavorable results from such clinical studies;
- loss of key suppliers or issues with the ongoing supply of the acquired product from its former owners;
- · charges related to the acquisition of in-process research and development;
- dilution as a result of equity financing required to fund acquisition costs; or
- debt as a result of debt financing required to fund acquisition costs, which would be senior to our common stock and would require interest
 payments to a lender.

We could also discover deficiencies withheld from us due to fraud or otherwise not uncovered in our due diligence prior to an acquisition, including but not limited to deficiencies in internal controls, data adequacy and integrity, product quality, and regulatory compliance, as well as undisclosed contractual or other liabilities and product liabilities, any of which could result in us becoming subject to penalties or other liabilities. Any of these difficulties could negatively impact our ability to realize the intended and anticipated benefits that we currently expect from our acquisitions or from acquisitions we complete in the future and could harm our financial condition and results of operations.

For instance, in August 2014, we acquired all of the capital stock of Xenotis Pty Ltd, the parent company of Bio Nova International, which was the manufacturer of our Omniflow II biosynthetic vascular graft. Bio Nova's operations are located in North Melbourne, Australia, and we currently expect to continue operations in Australia for the foreseeable future. Our ability to manage these operations efficiently and effectively may be impaired due to their distance from our Burlington, Massachusetts headquarters.

In 2014 and 2015, we acquired two product lines for which we have since then been transitioning manufacturing to our Burlington facility. We expect to complete the transfer of manufacturing of these product lines to Burlington in 2017; however there can be no assurances that this will be achieved on the expected timetable or that transfer costs will not exceed our expectations.

In 2016, we acquired the ProCol vascular graft, which continues to be manufactured by the company from which we acquired the device. While we currently rely on the former owners to continue to supply product to us, we have initiated the transfer of manufacturing in 2016, and we expect it to be complete in 2018, subject to regulatory approval.

We also acquired the processing, preservation and distribution operations of RestoreFlow allografts in 2016, and we intend to continue conducting such operations at our Fox Rover Grove, Illinois facility. See "Our tissue processing and preservation services are subject to a variety of risks, including those related to the procurement of human tissue and regulatory requirements" below for risks associated with our tissue processing and preservation services.

For any of these reasons or as a result of other factors, we may not realize the anticipated benefits of our acquisitions and our operating results may be harmed.

Our tissue processing and preservation services are subject to a variety of risks, including those related to the procurement of human tissue and regulatory requirements.

In November 2016, we acquired the processing, preservation and distribution operations for the RestoreFlow allograft. Prior to the acquisition, we did not provide any services related to human tissue. Our ability to successfully provide such services may be affected by the following:

- maintenance of quality standards and controls to mitigate the risk that processed tissue cannot be sterilized;
- compliance with regulatory and legal requirements specific to human tissue, with which we were previously unfamiliar, or changes in those requirements;
- maintenance of our AATB accreditation, FDA establishment registration and state licensures;
- the degree to which our tissue procurement organizations are successful in procuring the gift of tissue donation;
- procurement from tissue procurement organizations of adequate amounts of human tissue of a type and quality that meets our specifications;
- processing human tissue in a cost effective manner;
- controlling turnover in a workforce skilled in tissue processing and cryopreservation and any subsequent delay necessary for the adequate training of new personnel; and
- compliance of our tissue procurement organizations to current good tissue practices and our procurement procedures.

Our failure in any one or more of these areas could adversely impact our ability to provide processing, preservation and distribution services related to allografts and therefore our operations.

Our dependence on sole- and limited-source suppliers could hinder our ability to deliver our products and services to our customers on a timely basis or at all and could harm our results of operations.

We rely on sole- and limited-source suppliers for some of our important product components and certain products. For example, our TRIVEX system and associated disposables, as well as components of our EndoRE

remote endarterectomy product line, are manufactured for us by third-party suppliers. Additionally, we rely on a sole-source supplier for the ovine material used for our Omniflow II biosynthetic vascular graft, and the ProCol vascular graft continues to be manufactured by the company from which we acquired the device.

There are relatively few, or in some cases no, alternative, validated sources of supply for these components and products. And in some cases, we do not have supply agreements with these suppliers, instead placing orders on an as-needed basis. At any time, these suppliers could discontinue or become incapable of the manufacture or supply of these components or products on acceptable terms or otherwise. We do not ordinarily carry a significant inventory of these components and products. Identifying and qualifying additional or replacement suppliers, if required, may not be accomplished quickly or at all and could involve significant additional costs. Any supply interruption from our suppliers or failure to obtain replacement suppliers would interrupt our ability to manufacture our products and result in production delays and increased costs and may limit our ability to deliver products to our customers. This could lead to customer dissatisfaction and damage to our reputation, and our financial condition or results of operations may be harmed.

With respect to our RestoreFlow allografts, we rely on tissue procurement organizations to provide donated tissue to us for processing and cryopreservation. While we have relationships with several tissue procurement organizations, we cannot be sure that the supply of suitable human tissue will be available to us at the levels we need, in which case our revenues from allografts could be adversely affected.

Any disruption in our manufacturing facilities could harm our results of operations.

Our principal worldwide executive, distribution, and manufacturing operations are located in three adjacent leased facilities located in Burlington, Massachusetts. We also have a manufacturing site in North Melbourne, Australia and a tissue processing and preservation facility in Fox River Grove, Illinois. These facilities and the manufacturing equipment we use to produce our products would be difficult to replace and could require substantial lead-time to repair or replace in the event of a natural or man-made disaster. In such event, we could not shift production or processing to alternate manufacturing facilities, and we would be forced to rely on third-party manufacturers, if available at all. Although we carry insurance for damage to our property and the disruption of our business from casualties, such insurance may not be sufficient to cover all of our potential losses, including potential damage to our reputation, and may not continue to be available to us on acceptable terms, or at all.

Certain of our products contain materials derived from animal sources and may become subject to additional regulation.

Our AlboGraft vascular graft, AlboSure vascular patch, XenoSure biologic patch and ProCol vascular graft products contain bovine tissue or material derived from bovine tissue, and our Omniflow II Biosynthetic Vascular Graft contains ovine tissue. Products that contain materials derived from animal sources, including food, pharmaceuticals and medical devices, are increasingly subject to scrutiny in the media and by regulatory authorities. Regulatory authorities are concerned about the potential for the transmission of disease from animals to humans via those materials. This public scrutiny has been particularly acute in Japan and Western Europe with respect to products derived from animal sources, because of concern that bovine materials infected with the agent that causes bovine spongiform encephalopathy, otherwise known as BSE or mad cow disease, may, if ingested or implanted, cause a variant of the human Creutzfeldt-Jakob Disease, an ultimately fatal disease with no known cure. Cases of BSE in cattle discovered in Canada and the United States have increased awareness of the issue in North America. Certain regions or countries have issued regulations that require products to be processed from bovine tissue sourced from countries, like Australia or New Zealand, where no cases of BSE have occurred. Products that contain materials derived from animals, including our products, may become subject to additional regulation, or even be banned in certain countries, because of concern over the potential for the transmission of infectious agents. Significant new regulation, or a ban of our products, could impair our current business or our ability to expand our business, and in the case of a ban or suspension, could materially and adversely affect our results of operations.

We face intense competition from other companies, technologies, and alternative medical procedures and we may not be able to compete effectively.

The segments in which we compete are highly competitive, subject to change, and significantly affected by new product introductions and other activities of industry participants. Although no one company competes against us in all of our product lines or services, a number of manufacturers of peripheral vascular devices have substantially greater capital resources, larger customer bases, broader product lines, larger sales forces, greater marketing and management resources, larger research and development staffs, and larger facilities than ours; have established reputations with our target customers; and have developed worldwide distribution channels that are more effective than ours. Our competitors could elect to devote additional resources to the segments in which we currently enjoy less competition. Also, although we currently have leading positions in the segments for some of our products, this is not true for all of our products. From time to time, we have experienced difficulties competing against large companies.

Recent industry consolidation could make the competitive environment more difficult for smaller companies like ours. Our competitors may be companies who are larger than us and who have substantially greater financial, technological, research and development, regulatory, marketing, sales, and personnel resources than we do. Certain of these competitors are able to manufacture at lower costs and may therefore offer comparable products at lower prices. Certain of these competitors may also have greater experience in developing and further improving products, obtaining regulatory approvals, and manufacturing and marketing such products. Certain of these competitors may obtain patent protection or regulatory approval or clearance, or achieve product commercialization, before us, any of which could materially adversely affect us. Further, if the trend towards endovascular procedures versus open vascular procedures continues or accelerates, our competitors may be better poised to take advantage of that trend, since our main product lines are used primarily in open vascular procedures. Because of the vascular disease market opportunity, competitors and potential competitors have dedicated, and we believe will continue to dedicate, significant resources to aggressively promote their products. Also, new product developments that could compete with us more effectively are likely because the vascular disease market is characterized by extensive research efforts and technological progress. Competitors may develop technologies and products that are safer, more effective, easier to use, less expensive, or more readily accepted than ours. Their products could make our technology and products obsolete or noncompetitive. Our competitors may also be able to achieve more efficient manufacturing and distribution operations than we can. In addition, many of our products face competition from alternative procedures that utilize a different kind of medical device that we do not currently sell. Increased competition could also result

If we are unable to increase our selling prices to customers, or if we are required to make price concessions, our rate of net sales growth could be reduced and our operating results could suffer.

In the years ended December 31, 2016, 2015 and 2014, a material portion of our increases in net sales was driven by higher average selling prices to our hospital customers across several of our product lines, particularly with respect to sales of our 1.5mm HYDRO LeMaitre Valvulotome and with respect to sales occurring in the United States. In the past, we have been able to rely upon our intellectual property position, our well-known brands, and our established reputation in the vascular surgery device marketplace to implement price increases. We implemented a significant price increase in 2015 for our 1.5mm HYDRO LeMaitre Valvulotome, and our ability to implement additional price increases with respect to that product in the future may be limited. We also experienced an increase in net sales of our XenoSure biologic patch in 2016, which was due in part to the recall of a competitive product. That recall has since been resolved, and we have only retained a portion of the customers who switched to our product during the pendency of the recall. If we are unable to retain those customers, then our XenoSure biologic patch sales could be lower than expected.

Additionally, we may become unable to implement further increases in the selling prices of our products:

• if healthcare spending is reduced, particularly in the United States, in response to government-enacted healthcare reform, general economic conditions, or the influence of accountable care organizations;

- if the reimbursement rates for the medical procedures in which our products are used are reduced or limited; or
- if competitors introduce lower-priced products of comparable safety and efficacy.

We also expect marketplace changes to increasingly place pressure on medical device pricing as hospitals join group purchasing organizations, integrated delivery networks, managed care organizations and other groups that seek to aggregate purchasing power and as hospitals are given financial incentives to improve quality and reduce costs. Due to pricing pressures, surgeons may even perform alternative procedures in which our products are unnecessary.

If we become unable to raise selling prices, or if we are required to make price concessions, it could reduce our rate of net sales growth and harm our operating results.

The risks inherent in operating internationally and the risks of selling and shipping our products and of purchasing our components and products internationally may adversely impact our net sales, results of operations, and financial condition.

We derive a significant portion of our net sales from operations in markets outside of the United States. For the year ended December 31, 2016, 44% of our net sales were derived from our operations outside of the United States. Our international sales operations expose us and our representatives, agents, and distributors to risks inherent in operating in foreign jurisdictions. These risks include:

- fluctuations in foreign currency exchange rates;
- the imposition of additional U.S. and foreign governmental controls or regulations, including export licensing requirements, duties and tariffs, and other trade restrictions, whether due to, or in reaction to, changes in U.S. trade policy under President Trump or otherwise;
- the risk of non-compliance with the Foreign Corrupt Practices Act by our sales representatives or our distributors;
- changing medical device regulations that may impede our ability to register our products in a jurisdiction;
- the imposition of U.S. and/or international sanctions against a country, company, person, or entity with whom we do business that would restrict or prohibit continued business with the sanctioned country, company, person, or entity, whether due to, or in reaction to, changes in U.S. foreign policy under President Trump or otherwise;
- a shortage of high-quality sales personnel and distributors;
- loss of any key personnel who possess proprietary knowledge, or who are otherwise important to our success in certain international markets;
- changes in third-party reimbursement policies that may require some of the patients who receive our products to directly absorb medical costs or
 that may necessitate the reduction of the selling prices of our products;
- the imposition of restrictions on the activities of foreign agents, representatives, and distributors;
- scrutiny of foreign tax authorities, which could result in significant fines, penalties, and additional taxes being imposed on us;
- pricing pressure that we may experience internationally;
- · laws and business practices favoring local companies;
- longer payment cycles;

- difficulties in enforcing agreements and collecting receivables through certain foreign legal systems;
- difficulties in enforcing or defending intellectual property rights;
- exposure to different legal and political standards; and
- political, economic, and/or social instability.

We cannot assure you that one or more of these factors will not harm our business. Any material decrease in our international sales would adversely impact our net sales, results of operations, and financial condition.

The use or misuse of our products and tissues we distribute may result in injuries that lead to product liability suits, which could be costly to our business.

If our products or the tissue we process and preserve are defectively designed, manufactured, processed or labeled, contain defective components, or are misused, or if our products or the tissues we process and preserve are found to have caused or contributed to injuries or death, we may become subject to costly litigation by our customers or their patients. Although we offer training for physicians, we do not require that physicians be trained in the use of our products or the tissues we distribute, and physicians may use our products or the tissues we distribute incorrectly or in procedures not contemplated by us. We are from time to time involved in product liability claims. Product liability claims could divert management's attention from our core business, be expensive to defend, and result in sizable damage awards against us. Claims of this nature may also adversely affect our reputation, which could damage our position in the market and subject us to recalls.

We cannot assure you that our product liability insurance coverage will be sufficient to satisfy any claim made against us. Further, we may not be able to maintain the same level of coverage, and we may not be able to obtain adequate coverage at a reasonable cost and on reasonable terms, if at all. Any product liability claim brought against us, with or without merit, could increase our product liability insurance rates or prevent us from securing coverage in the future. Additionally, if any such product liability claim or series of claims is brought against us for uninsured liabilities or is in excess of our insurance coverage, our business could be harmed.

From time to time, we are involved in litigation where the outcome is uncertain and which could entail significant expense.

We are subject, from time to time, to legal proceedings and litigation, including, but not limited to, actions relating to product liability, employment matters, intellectual property, contract disputes and other commercial matters. Because the outcome of litigation is inherently difficult to predict, it is possible that the outcome of litigation, or even simply the defense of litigation, could entail significant cost for us and harm our business. The fact that we operate in international markets also increases the risk that we may face legal exposures as we seek to comply with a large number of varying legal and regulatory requirements. If any such proceedings were to result in an unfavorable outcome, it could adversely affect our business, financial condition and results of operations.

If we fail to convert additional countries or products from distributor sales to direct sales, or encounter difficulties in effecting such conversions, our results of operations could suffer.

We have a history of converting international distributor sales to direct-to-hospital sales by buying out our foreign distributor agreements and selling directly to hospitals through our own established sales representatives. In the future, we may elect to convert select additional countries and products from distributor sales to direct sales. Such conversions sometimes result in disruptions in our sales in the applicable geographies. These transitions may also have an adverse effect on our cash flow from operations because distributors, unlike direct sales personnel, pay us for inventory that they stock for later sale. In addition, switching to a direct sales force may subject us to longer customer collection times and larger bad debt expense, since we would be required to collect customer payments directly rather than through a distributor.

Our distribution agreements are typically exclusive with terms of up to five years. These agreements may temporarily constrain our ability to convert certain countries or products from a distributor to a direct sales model. In order to ensure a successful market transition, we may compensate a distributor in connection with the termination of their distributorship, even where the payment of compensation is not required by contract or local law.

Following termination of any distribution agreement, we may encounter difficulties in transitioning to a direct-sales model in any country in question. It may take us longer than expected to find sufficient qualified sales personnel to establish an effective sales force, which could negatively impact projected sales. If a distributor sold our products through a network of sales agents, rather than exclusively through its own personnel, we may not be able to establish relationships with all members of that network, temporarily limiting our access to the existing market. Similarly, failure to maintain or quickly re-establish a distributor's close relationships with the physicians who use our products could reduce sales. Further, it may be difficult or impossible to transfer the assignment of a distributor's rights to sell our products, and as a result, sales to customers may be delayed until a new agreement or approval is obtained. The transition to a direct sales model may also require us to incur additional expenses and meet regulatory requirements that were previously the responsibility of the distributor. As a result of these risks, there can be no assurance that we will be successful in transitioning to a direct sales model in the countries that we select, and difficulties that we encounter in these transitions could negatively affect our business.

Fluctuations in the exchange rate of the U.S. dollar and other currencies may adversely impact our results of operations.

Our results of operations are reported in U.S. dollars. While the majority of our revenue is denominated in U.S. dollars, a portion of our revenue and costs is denominated in other currencies, such as the Euro, the British pound, the Japanese yen, the Canadian dollar and the Australian dollar. As of December 31, 2016, 44% of our net sales were derived from our operations outside of the United States. As a result, we face exposure to movements in currency exchange rates. Our results of operations and our operating expenses are exposed to foreign exchange rate fluctuations as the financial results of those operations are translated from local currency into U.S. dollars upon consolidation. If the U.S. dollar weakens against the local currency, the translation of these foreign currency-based local operations will result in increased net assets, revenue, operating expenses, and net income. Similarly, our local currency-based net assets, revenue, operating expenses, and net income will decrease if the U.S. dollar strengthens against local currency. Additionally, transactions denominated in currencies other than the functional currency may result in gains and losses that may adversely impact our results of operations.

Risks Related to the Regulatory Environment

Oversight of the medical device industry might affect the manner in which we may sell medical devices and compete in the marketplace.

There are laws and regulations that govern the means by which companies in the healthcare industry may market their products and services to healthcare professionals and may compete by discounting the prices of their products and services, including for example, the federal Anti-Kickback Statute, the federal False Claims Act, the federal Health Insurance Portability and Accountability Act of 1996, state law equivalents to these federal laws that are meant to protect against fraud and abuse and analogous laws in foreign countries. Violations of these laws are punishable by criminal and civil sanctions, including, but not limited to, civil and criminal penalties, damages, fines, exclusion from participation in federal and state healthcare programs, including Medicare and Medicaid. Although in structuring our sales and marketing practices and customer discount arrangements we strive to comply with those laws and regulations, we cannot assure you that:

• government officials charged with responsibility for enforcing those laws will not assert that our sales and marketing practices or customer discount arrangements are in violation of those laws or regulations; or

• government regulators or courts will interpret those laws or regulations in a manner consistent with our interpretation.

Federal and state laws are also sometimes open to interpretation, and from time to time we may find ourselves at a competitive disadvantage if our interpretation differs from that of our competitors.

Our business is subject to complex, costly, and burdensome regulations. We could be subject to significant penalties if we fail to comply.

The production and marketing of our products and services and our ongoing research and development are subject to extensive regulation and review by numerous governmental authorities both in the United States and abroad. U.S. and foreign regulations applicable to medical devices and human tissues are wide-ranging and govern, among other things, the testing, marketing, and premarket clearance or approval of new medical devices and services related to human tissues, as applicable, in addition to regulating manufacturing and processing practices, reporting, promotion and advertising, importing and exporting, labeling, and record-keeping procedures.

Our failure to comply with applicable regulatory requirements could result in governmental agencies or a court taking action, including any of the following:

- issuing public warning letters to us;
- imposing fines and penalties on us;
- issuing an injunction preventing us from manufacturing, processing, selling or distributing our products;
- bringing civil or criminal charges against us;
- delaying the introduction of our new products into the market;
- ordering a recall of, or detaining or seizing, our products or cryopreserved human tissue; or
- · withdrawing or denying approvals or clearances for our products.

If any or all of the foregoing were to occur, our business, results of operations, and reputation could suffer.

If we are not successful in obtaining and maintaining clearances and approvals from governmental agencies for our medical devices, we will not be able to sell our products, and our future growth will be significantly hampered.

Our products require premarket clearance or approval in the United States and the CE Mark or other approvals in foreign countries where they are sold. Each medical device that we wish to market in the United States generally must receive either 510(k) clearance or approval of a premarket application, or PMA, from the FDA before the product can be marketed or sold. Either process can be lengthy and expensive. The FDA's 510(k) clearance procedure usually takes from three to twelve months from the date the FDA receives the application, but may take significantly longer. Although 510(k) clearances have been obtained for nearly all of our current products that require 510(k) clearances, the FDA may condition, limit or prohibit our sales of these products if safety or effectiveness problems develop with the devices. Our new products or significantly modified marketed products could be denied 510(k) clearance and required to undergo the more burdensome PMA approval process if they are not found to be substantially equivalent.

The PMA approval process is much more costly, lengthy, and uncertain than the premarket notification process. It generally takes from six months to three years from the date the application is submitted to, and filed with, the FDA, and may take even longer. Achieving premarket approval typically requires extensive clinical trials and may require the filing of numerous amendments with the FDA over time. We do not have significant experience in obtaining PMA approval for our products.

The FDA has previously proposed changes for which FDA clearance to market would possibly require clinical data, more extensive manufacturing information and post market data. As part of the 510(k) reform, the FDA proposes to issue regulations defining grounds and procedures for rescission of 510(k) applications that have previously been cleared to market. The FDA may also require the more extensive PMA process for certain products. Our ability to market our products outside the United States is also subject to regulatory approval, including our ability to demonstrate the safety and effectiveness of our products in the clinical setting. Even if regulatory approval or clearance of a product is granted, the approval or clearance could limit the uses or the claims for which the product may be labeled and promoted, which may limit the market for our products. If we do not obtain and maintain foreign regulatory or FDA approval with respect to our products, as applicable, we will not be able to sell our products, and our future growth will be significantly hampered.

If we or some of our suppliers fail to comply with the FDA's Quality System Regulation and other applicable requirements, our manufacturing or processing operations could be disrupted, our sales and profitability could suffer, and we may become subject to a wide variety of FDA enforcement actions.

We are subject to inspection and marketing surveillance by the FDA to determine our compliance with all regulatory requirements. If the FDA finds that we have failed to comply with any regulatory requirements, it can institute a wide variety of enforcement actions.

We and some of our suppliers must comply with the FDA's Quality System Regulation, which governs the methods used in, and the facilities and controls used for, the design, testing, manufacture, control, quality assurance, installation, servicing, labeling, packaging, storage, and shipping of medical devices. Our Fox River Grove operations must comply with the FDA's current Good Tissue Practices, which are the FDA regulatory requirements for the processing of human tissue. The FDA enforces its regulations through pre-announced and unannounced inspections. We have been, and anticipate in the future being, subject to such inspections by the FDA and other regulatory bodies. The timing and scope of future audits is unknown and it is possible, despite our belief that our quality systems and the operation of our manufacturing facilities will remain in compliance with U.S, and non-U.S. regulatory requirements, that a future audit may result in one or more unsatisfactory results. If we or one of our suppliers fails an inspection, or if a corrective action plan adopted by us or one of our suppliers is not sufficient, the FDA may bring an enforcement action against us, and our operations could be disrupted and our manufacturing delayed.

We are also subject to the FDA's general prohibition against promoting our products for unapproved or off-label uses and to the medical device reporting, or MDR, regulations that require us to report to the FDA if our products may have caused or contributed to a death or serious injury, or if our device malfunctions and a recurrence of the malfunction would likely result in a death or serious injury. We must also file reports with the FDA of some device corrections and removals, and we must adhere to the FDA's rules on labeling and promotion. If we fail to comply with these or other FDA requirements or fail to take adequate corrective action in response to any significant compliance issue raised by the FDA, the FDA can take significant enforcement actions, which could harm our business, results of operations, and our reputation.

In addition, most other countries, such as Japan, require us to comply with manufacturing and quality assurance standards for medical devices that are similar to those in force in the United States before marketing and selling our products in those countries. If we fail to comply, we would lose our ability to market and sell our products in those foreign countries.

Even after our products have received marketing approval or clearance, our products and the tissue we process may be subject to product recalls. Licenses, registrations, approvals and clearances could be withdrawn or suspended due to failure to comply with regulatory standards or the occurrence of unforeseen problems following initial approval.

Our products, services, marketing, sales and development activities, and manufacturing processes are subject to extensive and rigorous regulation by the FDA, by comparable agencies in foreign countries, and by

other regulatory agencies and governing bodies. These authorities have been increasing their scrutiny of our industry. If those regulatory bodies feel that we have failed to comply with regulatory standards or if we encounter unforeseen problems following initial approval, licensure or registration, there can be no assurance that any approval, licensure or registration will not be subsequently withdrawn, suspended or conditioned upon extensive post-market study requirements, even after having received marketing approval or clearance or licenses and registrations. Further, due to the increased scrutiny of our industry by the various regulatory agencies and the interconnectedness of the various regulatory agencies, particularly within the European Union, there is also no assurance that withdrawal or suspension of any of our approvals, licenses or registrations by any single regulatory agency will not precipitate one or more additional regulatory agencies from also withdrawing or suspending their approval, license or registration.

In the event that any of our products proves to be defective, we can voluntarily recall, or the FDA or foreign equivalent could require us to implement a recall of or prohibit the sale of, any of our products. For example, in 2016 and in early 2017, we voluntarily recalled certain lots of our HYDRO LeMaitre valvulotome due to an issue with the product's closure mechanism. We were able to address the issue and we believe the recall, affecting approximately 5,500 units, will be substantially complete by June 30, 2017. While the affected lots remain on recall, we have continued to sell unaffected lots and we believe that we will be able to rework returned valvulotomes at minimal expense. In February 2017, we voluntarily recalled certain lots of our Reddick cholangiogram catheter due to a labeling issue. We are able to fix the labeling issue by placing additional stickers on the affected product, and we believe the recall will be substantially complete by June 30, 2017. While we have taken corrective action to address these issues, there can be no assurance that there will not be a recurrence or that other problems related to our products will not develop in the future. And though the aggregate cost of these recalls to us was only \$0.2 million, recalls could result in significant costs to us and significant adverse publicity, which could harm our ability to market our products in the future.

With respect to our RestoreFlow allografts, we may voluntarily recall tissue, and in the event of non-compliance with the regulations governing human tissue, the FDA may issue a warning letter, order the recall and/or destruction of tissues and/or order the suspension or cessation of processing and preservation of new tissues.

Additionally, if someone is harmed by a malfunction or a product defect, we may experience product liability claims for such defects. Any corrective action, whether voluntary or involuntary, as well as defending ourselves in a lawsuit, will require the dedication of our time and capital and may harm our reputation and financial results. Future recalls or claims could also result in significant costs to us and significant adverse publicity, which could harm our ability to market our products in the future.

The adoption of healthcare reform in the United States may adversely affect our business, results of operations and/or financial condition.

In March 2010, significant reforms to the U.S. healthcare system were adopted in the form of the Patient Protection and Affordable Care Act (PPACA). The PPACA included provisions that, among other things, reduce and/or limit Medicare reimbursement, require all individuals to have health insurance (with limited exceptions) and impose new and/or increased taxes (including the medical device excise tax in effect in 2013, 2014 and 2015). While the requirement that the medical device industry subsidize healthcare reform in the form of a 2.3% excise tax on U.S. sales of most medical devices was suspended for 2016 and 2017, there is no guarantee that the moratorium will be approved for subsequent years. In 2015, we paid an excise tax of approximately \$0.7 million.

In January 2017, Congress voted to adopt a budget resolution for fiscal year 2017, or the Budget Resolution, that authorizes the implementation of legislation that would repeal portions of the PPACA. Further, on January 20, 2017, President Trump signed an Executive Order directing federal agencies with authorities and responsibilities under the PPACA to waive, defer, grant exemptions from, or delay the implementation of any provision of the PPACA that would impose a fiscal or regulatory burden on states, individuals, healthcare providers, health insurers, or manufacturers of pharmaceuticals or medical devices. Congress also could consider subsequent legislation to replace elements of the PPACA that are repealed.

Various healthcare reform proposals have also emerged at the state level. The PPACA and these proposals could reduce medical procedure volumes and impact the demand for our products or the prices at which we sell our products. In addition, the excise tax increases our cost of doing business. While the future of PPACA is uncertain due to the Budget Resolution and President Trump's executive order, the impact of the PPACA, or any replacement plan, and these proposals, as well as new state-level proposals in reaction to the executive order, could harm our operating results and liquidity.

Domestic and foreign legislative or administrative reforms resulting in restrictive reimbursement practices of third-party payors and cost containment measures could decrease the demand for products purchased by our customers, the prices that our customers are willing to pay for those products and the number of procedures using our devices.

Our products and our tissue preservation services are purchased principally by hospitals or physicians which typically bill various third-party payors, such as governmental programs (e.g., Medicare, Medicaid and comparable foreign programs), private insurance plans and managed care plans, for the healthcare services provided to their patients. The ability of our customers to obtain appropriate reimbursement for products and services from third-party payors is critical to the success of our products and services because it affects which products customers purchase and the prices they are willing to pay. Reimbursement varies by country and can significantly impact the acceptance of new technology. Implementation of healthcare reforms in the United States and in significant overseas markets such as Germany, Japan, France and other countries may limit, reduce or eliminate reimbursement for our products and services and adversely affect both our pricing flexibility and the demand for our products and services. Even when we develop or acquire a promising new product or service, we may find limited demand for the product or service unless reimbursement approval is obtained from private and governmental third-party payors.

Major third-party payors for hospital services in the United States and abroad continue to work to contain healthcare costs through, among other things, the introduction of cost containment incentives and closer scrutiny of healthcare expenditures by both private health insurers and employers. For example, in an effort to decrease costs, certain hospitals and other customers may resterilize our products intended for a single use or purchase reprocessed products from third-party reprocessors in lieu of purchasing new products from us.

Further legislative or administrative reforms to the reimbursement systems in the United States and abroad, or adverse decisions relating to our products by administrators of these systems in coverage or reimbursement, could significantly reduce reimbursement for procedures using our medical devices or result in the denial of coverage for those procedures. Examples of these reforms or adverse decisions include price regulation, competitive pricing, coverage and payment policies, comparative effectiveness of therapies, technology assessments and managed-care arrangements. Any of such reforms or adverse decisions resulting in restrictive reimbursement practices or denials of coverage could have an adverse impact on the acceptance of our products and the prices that our customers are willing to pay for them.

If we do not comply with foreign regulatory requirements to market our products outside the United States, our business will be harmed.

Sales of medical devices outside the United States are subject to international regulatory requirements that vary from country to country. These requirements and the amount of time required for approval may differ from our experiences with the FDA in the United States. In some cases, we rely on our non-U.S. distributors to obtain premarket approvals, complete product registrations, comply with clinical trial requirements, and complete those steps that are customarily taken in the applicable jurisdictions to comply with governmental and quasi-governmental regulation. In the future, we expect to continue to rely on distributors in this manner in those countries where we continue to market and sell our products through them. Failure to satisfy these foreign regulations would impact our ability to sell our products in these countries and could cause our business to suffer. There can be no assurance that we will be able to obtain or maintain the required regulatory approvals in these countries.

Our products are regulated in the European Union under the European Medical Devices Directive (93/42/EC as amended by 2007/47/EC). In order to market our medical devices in the European Union, we are required to obtain CE mark certification, which denotes conformity to the essential requirements of the Medical Devices Directive. We have received CE mark certification to sell nearly all of our products. However, there can be no assurance that we will be able to obtain a CE mark for new products in the future or for modifications to our existing products or in the manufacturing of our products, and obtaining a CE mark may involve a significant amount of time and expense, stringent clinical and preclinical testing, or modification of our products and could result in limitations being placed on the use of our products in order to obtain approval.

Maintaining a CE mark is contingent upon our continued compliance with applicable European medical device requirements, including limitations on advertising and promotion of medical devices and requirements governing the handling of adverse events. There can be no assurance that we will be successful in maintaining the CE mark for any of our current products. In particular, adverse event reporting requirements in the European Union mandate that we report incidents which led or could have led to death or serious deterioration in health. Under certain circumstances, we could be required to or could voluntarily initiate a recall or removal of our product from the market in order to address product deficiencies or malfunctions. Any recall of our products may harm our reputation with customers and divert managerial and financial resources.

Failure to receive or maintain approval would prohibit us from selling these products in member countries of the European Union, and would require significant delays in obtaining individual country approvals. If we do not receive or maintain these approvals, our business could be harmed.

Our manufacturing facilities are subject to periodic inspection by European regulatory authorities and Notified Bodies, and we must demonstrate compliance with the Medical Devices Directive. Our most recent inspections by our European Notified Bodies were conducted in July and November 2015. Any failure by us to comply with European requirements in this regard may entail our taking corrective action, such as modification of our policies and procedures. In addition, we may be required to cease all or part of our operations for some period of time until we can demonstrate that appropriate steps have been taken. There can be no assurance that we will be found in compliance with such standards in future audits.

We also pursue registrations in other jurisdictions in which we sell our devices directly, such as Japan and China. In 2015, the China Food and Drug Administration significantly increased the application fees for product registrations and imposed additional requirements for obtaining product approval, which includes requirements for conducting clinical trials on most new products in China. Any delay in product registrations could have a negative impact on our results of operations.

Risks Related to Intellectual Property

If we fail to adequately protect our intellectual property rights, or prevent use of our intellectual property by third parties, we could lose a significant competitive advantage and our business may suffer.

Our success depends in part on obtaining, maintaining, and enforcing our patents, trademarks, and other proprietary rights, and our ability to avoid infringing on the proprietary rights of others. We take precautionary steps to protect our technological advantages and intellectual property. We rely upon patent, trade secret, copyright, know-how, and trademark laws, as well as license agreements and contractual provisions, to establish our intellectual property rights and protect our products. These measures may only afford limited protection and may not:

- prevent our competitors from duplicating our products or services;
- prevent our competitors from gaining access to our proprietary information and technology; or
- permit us to gain or maintain a competitive advantage.

The issuance of a patent is not conclusive as to its validity or enforceability. Any patents we have obtained or will obtain in the future might also be invalidated or circumvented by third parties. In addition, our pending patent applications may not issue as patents or, if issued, may not provide commercially meaningful protection, as competitors may be able to design around our patents to produce alternative, non-infringing designs. Should such challenges to our patents be successful, competitors might be able to market products and use manufacturing processes that are substantially similar to ours. Furthermore, patents expire after a certain duration, depending on the jurisdiction in which issued. To the extent any manufacturers are successful in challenging our patents or they enter the market following the expiration of our patents, this could have an adverse impact on our business and harm our sales and operating results.

Additionally, we may not be able to effectively protect our rights in unpatented technology, trade secrets, and confidential information. We have a policy of requiring key employees and consultants and corporate partners with access to trade secrets or other confidential information to execute confidentiality agreements. Our confidentiality agreements also require our employees to assign to us all rights to any inventions made or conceived during their employment with us. We also generally require our consultants to assign to us any inventions made during the course of their engagement by us. There can be no assurance, however, that these agreements will provide meaningful protection or adequate remedies for us in the event of unauthorized use, transfer, or disclosure of confidential information or inventions.

In addition, the laws of foreign countries may not protect our intellectual property rights effectively or to the same extent as the laws of the United States. If our intellectual property rights are not adequately protected, we may not be able to commercialize our technologies, products, or services and our competitors could commercialize similar technologies, which could result in a decrease in our sales and market share.

If third parties claim that we infringe upon their intellectual property rights, we may incur liabilities and costs, and we may have to redesign or discontinue selling the affected product.

The medical device industry is litigious with respect to patents and other intellectual property rights. Companies operating in our industry routinely seek patent protection for their product designs, and many of our principal competitors have large patent portfolios. Companies in the medical device industry have used intellectual property litigation to gain a competitive advantage. Whether a product infringes a patent involves complex legal and factual issues, the determination of which is often uncertain. We face the risk of claims that we have infringed on third parties' intellectual property rights, and we cannot assure you that our products or methods do not infringe the patents or other intellectual property rights of third parties. Our efforts to identify and avoid infringing on third parties' intellectual property rights may not always be successful. Any claims of patent or other intellectual property infringement, even those without merit, could:

- be expensive and time consuming to defend;
- · result in us being required to pay significant damages to third parties for past use of the asserted intellectual property;
- harm our reputation;
- cause us to cease making or selling products that incorporate the challenged intellectual property;
- require us to redesign, reengineer, or rebrand our products, which may not be possible and could be costly and time consuming if it is possible to do so at all:
- require us to enter into royalty or licensing agreements in order to obtain the right to use a third party's intellectual property, which agreements may not be available on terms acceptable to us or at all;
- divert the attention of our management and key personnel from other tasks important to the success of our business; or
- result in our customers or potential customers deferring or limiting their purchase or use of the affected products until resolution of the litigation.

It is also possible that one of our competitors could claim that our manufacturing process violates an existing patent. If we were unsuccessful in defending such a claim, we may be forced to stop production at one or more of our manufacturing facilities.

In addition, new patents obtained by our competitors could threaten a product's continued life in the market even after it has already been introduced. If our business is successful, the possibility may increase that others will assert infringement claims against us.

If we believe our product is or may be the subject of a patent with a third party, we may attempt to reach a license agreement with them to manufacture, market, and sell these products. If we fail to reach an agreement with a third party patent holder that covers a product we offer, we could be required to pay significant damages to third parties for past use of the asserted intellectual property and may be forced to cease making or selling products that incorporate the challenged intellectual property.

In addition, we may become subject to interference proceedings conducted in the United States Patent Office or opposition proceedings conducted in foreign patent offices challenging the priority of invention or the validity of our patents.

Risks Related to Our Common Stock

Our stock price may be volatile, and your investment in our common stock could suffer a decline in value.

There can be significant volatility in the market price and trading volume of equity securities that is unrelated to the financial performance of the companies issuing the securities. These broad market fluctuations may negatively affect the market price of our common stock. You may not be able to resell your shares at or above the price at which you purchased them due to fluctuations in the market price of our common stock caused by changes in our operating performance or prospects, a reduced volume of trading in our common stock, and other factors.

Some specific factors that may have a significant effect on our common stock market price include:

- actual or anticipated fluctuations in our operating results or future prospects;
- our announcements or our competitors' announcements of new products;
- public concern as to the safety or efficacy of our products and services;
- the public's reaction to our press releases, our other public announcements, and our filings with the SEC;
- our determination whether or not to continue the payment of quarterly cash dividends;
- our determination whether or not to undertake or continue a share repurchase program;
- strategic actions by us or our competitors, such as acquisitions, divestitures or restructurings;
- · dilutive issuances of additional securities;
- changes in our growth rates or our competitors' growth rates;
- developments regarding our patents or proprietary rights or those of our competitors;
- our inability to raise additional capital;
- changes in financial markets or general economic conditions, including those resulting from significant changes in governmental policy, war, incidents of terrorism, and responses to such events;
- new laws or regulations or new interpretations of existing laws or regulations applicable to our business;

- the discontinuation of a product line or other revenue generating activity;
- adverse regulatory actions which may necessitate recalls of our products or services or warning letters that negatively affect the markets for our products or services;
- sales of common stock by us or our directors, officers, or principal stockholders;
- control by our affiliates and insiders of a significant percentage of our common stock;
- changes in stock market analyst recommendations or earnings estimates regarding our common stock, comparable companies, or our industry generally; and
- light volume of trading in our common stock;

In the past, following periods of volatility in the market price of a company's securities, securities class action litigation has often been instituted. This litigation, if instituted against us, could result in substantial costs and a diversion of our management's attention and resources.

Our chief executive officer has significant voting power and may take actions that may not align with the interests of our other stockholders.

Our chief executive officer and his family collectively control approximately 23% of our outstanding common stock as of December 31, 2016. As a result, these stockholders, if they were to act together, would have significant influence on many matters requiring stockholder approval, including the election of directors and approval of significant corporate transactions. This concentration of ownership may have the effect of delaying or preventing a change in control, might adversely affect the market price of our common stock, and may not be fully aligned with the interests of our other stockholders.

We have not established a minimum dividend payment level for our common stockholders and there are no assurances of our ability to pay dividends to common stockholders in the future.

In February 2011, our Board of Directors adopted a quarterly dividend program for the purpose of returning capital to our stockholders. However, we have not established a minimum dividend payment level for our common stockholders and our ability to pay dividends may be harmed by the risks and uncertainties described in this Annual Report on Form 10-K and in the other documents we file from time to time with the SEC. Future dividends, if any, will be authorized by our Board of Directors and declared by us based upon a variety of factors deemed relevant by our directors, including, among other things, our financial condition, liquidity, earnings projections and business prospects. In addition, financial covenants in any credit facility to which we become a party may restrict our ability to pay future quarterly dividends. We can provide no assurance of our ability to pay dividends in the future.

Item 1B. Unresolved Staff Comments

None.

Item 2. Properties

Our principal worldwide executive, distribution, and manufacturing operations are located at three adjacent 27,098 square foot, 27,289 square foot and 15,642 square foot leased facilities in Burlington, Massachusetts. Each of our Burlington leases expires in 2023. In addition, our international operations are headquartered at a 12,841 square foot leased facility located in Sulzbach, Germany, with a lease which expires in 2023. We also own a 6,140 square foot manufacturing facility in North Melbourne, Australia and lease a 6,722 square foot processing and distribution facility in Fox River Gove, Illinois. In addition, we have smaller leased sales and marketing offices located in Canada, China, Italy, Japan, and Spain. Based on our current operating plans, we believe our current facilities are adequate for our needs.

Item 3. Legal Proceedings

In the ordinary course of business, we are from time to time involved in lawsuits, claims, investigations, proceedings, and threats of litigation consisting of intellectual property, commercial, employment, and other matters. While the outcome of these proceedings and claims cannot be predicted with certainty, there are no matters, as of December 31, 2016, that, in the opinion of management, would be reasonably expected to have a material adverse effect on our financial position, results of operations or cash flows.

Item 4. Mine Safety Disclosures

Not applicable.

PART II

Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Market Information

Our common stock began trading on The NASDAQ Global Market under the symbol "LMAT" on October 19, 2006. The following table sets forth the high and low sales prices of our common stock as reported on The NASDAQ Global Market for the eight quarters ended December 31, 2016:

	High	Low
Year ended December 31, 2016:		
First quarter ended March 31, 2016	\$16.44	\$12.50
Second quarter ended June 30, 2016	\$16.72	\$13.89
Third quarter ended September 30, 2016	\$21.78	\$13.56
Fourth quarter ended December 31, 2016	\$25.46	\$18.95
Year ended December 31, 2015:		
First quarter ended March 31, 2015	\$ 8.38	\$ 7.29
Second quarter ended June 30, 2015	\$12.06	\$ 8.20
Third quarter ended September 30, 2015	\$14.30	\$11.13
Fourth quarter ended December 31, 2015	\$17.77	\$12.01

Holders of Record

On March 2, 2017, the closing price per share of our common stock was \$22.12 as reported on The NASDAQ Global Market, and we had approximately 204 stockholders of record. In addition, we believe that a significant number of beneficial owners of our common stock hold their shares in street name.

Dividend Policy

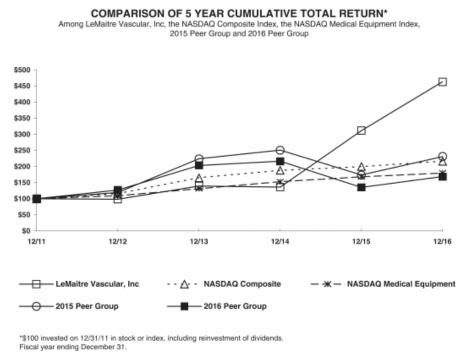
In February 2011, our Board of Directors approved a policy for the payment of quarterly cash dividends on our common stock. Future declarations of quarterly dividends and the establishment of future record and payment dates are subject to approval by our Board of Directors on a quarterly basis. The dividend activity for the periods presented is as follows:

Record Date	Payment Date	Per Share Amount	Dividend Payment (in thousands)
Fiscal Year 2016			
March 21, 2016	April 4, 2016	\$0.045	\$825
May 25, 2016	June 8, 2016	\$0.045	\$829
August 22, 2016	September 2, 2016	\$0.045	\$833
November 21, 2016	December 5, 2016	\$0.045	\$836
Fiscal Year 2015			
March 20, 2015	April 3, 2015	\$0.040	\$700
May 22, 2015	June 5, 2015	\$0.040	\$705
August 20, 2015	September 3, 2015	\$0.040	\$715
November 20, 2015	December 4, 2015	\$0.040	\$725

On February 16, 2017, our Board of Directors approved a quarterly cash dividend on our common stock of \$0.055 per share payable on April 6, 2017, to stockholders of record at the close of business on March 22, 2017, which will total approximately \$1.0 million in payments.

Stock Price Performance Graph

Set forth below is a graph comparing the cumulative total stockholder return on LeMaitre's common stock with the NASDAQ US Composite Index, the NASDAQ Medical Equipment Index and a peer group for the period covering from December 31, 2011, through the end of LeMaitre's fiscal year ended December 31, 2016. The graph assumes an investment of \$100.00 made on December 31, 2011, in (i) LeMaitre's common stock, (ii) the stocks comprising the NASDAQ US Composite Index, (iii) the stocks comprising the NASDAQ Medical Equipment Index and (iv) the stocks comprising our peer group. This graph is not "soliciting material," is not deemed "filed" with the SEC and is not to be incorporated by reference into any filing of LeMaitre under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, whether made before or after the date hereof and irrespective of any general incorporation language in any such filing.



	12/31/11	12/31/12	12/31/13	12/31/14	12/31/15	12/31/16
LeMaitre Vascular, Inc	100.00	98.65	140.14	136.33	311.90	463.14
NASDAQ Composite	100.00	116.41	165.47	188.69	200.32	216.54
NASDAQ Medical Equipment	100.00	109.53	131.61	152.86	168.58	180.31
2015 Peer Group	100.00	120.03	224.17	251.17	174.01	231.50
2016 Peer Group	100.00	127.39	203.66	216.64	135.58	168.81

LeMaitre's fiscal year ends on the last day of December each year; data in the above table reflects market values for our stock and NASDAQ and peer group indices as of the close of trading on the last trading day of year presented.

The 2015 peer group included the following companies: AtriCure, Inc., AngioDynamics, Inc., Cardiovascular Systems Inc., Cryolife Inc., Endologix, Inc., Spectranetics Corp., Lombard Medical Systems Inc. and Vascular Solutions, Inc.

The 2016 peer group includes the following companies: AngioDynamics, Inc., Avinger, Inc., Cardiovascular Systems Inc., Cryolife Inc., Endologix, Inc., Spectranetics Corp., Lombard Medical Systems Inc., Penumbra, Inc., and Vascular Solutions, Inc. This new peer group differs from our old peer group. Specifically, we removed AtriCure, Inc. since its products extend beyond peripheral vascular use, and we added Avinger, Inc. and Penumbra, Inc., based upon their product offerings and recent public stock issuances.

Recent Sales of Unregistered Securities

Not Applicable.

Issuer Purchases of Equity Securities

In the quarter ended December 31, 2016, we did not repurchase any shares of our common stock.

Item 6. Selected Financial Data

You should read the following selected consolidated financial data in conjunction with our consolidated financial statements and the related notes which are included elsewhere in this Annual Report and the "Management's Discussion and Analysis of Financial Condition and Results of Operations" section of this Annual Report. We have derived the consolidated statement of operations data for the years ended December 31, 2016, 2015 and 2014 and the consolidated balance sheet data as of December 31, 2016 and 2015, from our audited consolidated financial statements, which are included elsewhere in this Annual Report. We have derived the consolidated statement of operations data for the years ended December 31, 2013 and 2012, and the consolidated balance sheet data as of December 31, 2014, 2013 and 2012 from our audited consolidated financial statements, which are not included in this Annual Report. Our historical results for any prior period are not necessarily indicative of results to be expected for any future period.

		Year ended December 31,					
	2016	2015	2014	2013	2012		
		(in thousands, except per share data)					
Consolidated Statements of Operations Data:	000151	0.50 0.50	# # # # # # # # # #	064.740	0.5.6.50.5		
Net sales	\$89,151	\$78,352	\$71,097	\$64,549	\$56,735		
Cost of sales	26,215	24,186	22,666	19,434	15,867		
Gross profit	62,936	54,166	48,431	45,115	40,868		
Operating expenses:							
Sales and marketing	26,105	22,780	22,087	22,143	20,811		
General and administrative	14,354	14,010	13,889	12,576	10,973		
Research and development	6,141	5,479	4,671	5,243	5,092		
Medical device excise tax	_	744	689	635	_		
Restructuring charges		_	526				
Gain on divestitures	_	(360)	_	_	(248)		
Impairment charges			229				
Total operating expenses	46,600	42,653	42,091	40,597	36,628		
Income from operations	16,336	11,513	6,340	4,518	4,240		
Other income (expense):							
Interest income	81	13	1	4	78		
Interest expense	(14)	_	(5)	(12)	(1)		
Foreign currency gain (loss)	(161)	(102)	(16)	(182)	(324)		
Total other income (loss)	(94)	(89)	(20)	(190)	(247)		
Income before income tax	16,242	11,424	6,320	4,328	3,993		
Provision for income taxes	5,652	3,666	2,405	1,126	1,422		
Net income	\$10,590	\$ 7,758	\$ 3,915	\$ 3,202	\$ 2,571		
Earnings per share of common stock:							
Basic	\$ 0.57	\$ 0.44	\$ 0.24	\$ 0.21	\$ 0.17		
Diluted	\$ 0.55	\$ 0.42	\$ 0.23	\$ 0.20	\$ 0.16		
Weighted-average shares outstanding:							
Basic	18,485	17,764	16,614	15,317	15,194		
Diluted	19,241	18,316	17,008	15,764	15,638		
Cash dividends declared per common share	\$ 0.18	\$ 0.16	\$ 0.14	\$ 0.12	\$ 0.10		
		·					

	December 31,				
	2016	2015	2014	2013	2012
			(in thousands)		
Consolidated Balance Sheet Data:					
Cash and cash equivalents	\$ 24,288	\$27,451	\$18,692	\$14,711	\$16,448
Current assets	59,027	58,184	48,588	41,725	39,131
Total assets	101,924	90,704	81,492	70,492	63,060
Current liabilities	10,482	10,368	10,041	10,220	8,394
Long-term liabilities	3,942	2,452	3,244	3,710	1,778
Total liabilities	14,424	12,820	13,285	13,930	10,172
Total stockholders' equity	87,500	77,884	68,207	56,562	52,888

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion should be read in conjunction with our consolidated financial statements and the related notes contained elsewhere in this Annual Report on Form 10-K and in our other Securities and Exchange Commission filings. The following discussion may contain predictions, estimates, and other forward-looking statements that involve a number of risks and uncertainties, including those discussed under "Risk Factors" and elsewhere in this Annual Report on Form 10-K. These risks could cause our actual results to differ materially from any future performance suggested below.

Overview

We are a medical device company that develops, manufactures, and markets medical devices and implants for the treatment of peripheral vascular disease. We also provide processing and cryopreservation services of human tissue for implantation to patients. Our principal product offerings are sold throughout the world, primarily in the United States, Europe and, to a lesser extent, Asia and the Pacific Rim. We estimate that the annual worldwide market for all peripheral vascular devices approximates \$4 billion, within which our core product lines address roughly \$840 million. We have grown our business by using a three-pronged strategy: 1) pursuing a focused call point, 2) competing for sales of low-rivalry niche products, and 3) expanding our worldwide direct sales force while acquiring and developing complementary vascular devices. We have used acquisitions as a primary means of further accessing the larger peripheral vascular device market, and we expect to continue to pursue this strategy in the future. Additionally, we have increased our efforts to expand our vascular device offerings through new product development. We currently manufacture most of our product lines at our Burlington, Massachusetts headquarters.

Our products are used primarily by vascular surgeons who treat peripheral vascular disease through both open surgical methods and endovascular techniques. In contrast to interventional cardiologists and interventional radiologists, neither of whom are certified to perform open surgical procedures, vascular surgeons can perform both open surgical and minimally invasive endovascular procedures, and are therefore uniquely positioned to provide a wider range of treatment options to patients.

Our principal product lines include the following: valvulotomes, biologic vascular patches, carotid shunts, balloon catheters, biologic vascular grafts, anastomotic clips, radiopaque marking tape, powered phlebectomy devices, laparoscopic cholecystectomy devices, prosthetic vascular grafts, and remote endarterectomy devices. With the November 10, 2016 acquisition of the RestoreFlow allografts business from Restore Flow Allografts, LLC, we also provide services related to the processing and cryopreservation of human vascular tissue.

To assist us in evaluating our business strategies, we regularly monitor long-term technology trends in the peripheral vascular device market. Additionally, we consider the information obtained from discussions with the medical community in connection with the demand for our products, including potential new product launches. We also use this information to help determine our competitive position in the peripheral vascular device market and our manufacturing capacity requirements.

Our business opportunities include the following:

- the long-term growth of our direct sales force in North America, Europe, Asia and the Pacific Rim;
- the addition of complementary products through acquisitions;
- the updating of existing products and introduction of new products through research and development;
- · the introduction of our products in new territories upon receipt of regulatory approvals or registrations in these territories; and
- the consolidation of product manufacturing into our facilities in our Burlington, Massachusetts corporate headquarters.

We sell our products and services primarily through a direct sales force. As of December 31, 2016 our sales force was comprised of 96 sales representatives in North America, Europe, Japan, China, Australia and New Zealand. We also sell our products in other countries through distributors. Our worldwide headquarters is located in Burlington, Massachusetts. Our international operations are headquartered in Sulzbach, Germany. We also have sales offices located in Tokyo, Japan; Mississauga, Canada; Madrid, Spain; Milan, Italy; Shanghai, China; and North Melboume, Australia, and we have a processing facility in Fox River Grove, Illinois and a manufacturing facility in North Melboume, Australia. During both of the years ended December 31, 2016 and 2015, approximately 92% of our net sales were generated in territories in which we employ direct sales representatives.

Historically we have experienced success in lower-rivalry niche product segments, for example the market segments for biologic vascular patches and valvulotome devices. In the biologic vascular patch market segment the number of competitors is limited, and we believe that we have been able to increase segment share and to a lesser extent increase selling prices, mainly due to strong sales service. In the valvulotome market segment, we believe we have been able to materially increase our selling prices without losing significant market share. In contrast, we have experienced less success in highly competitive segments such as laparoscopic cholecystectomy devices and polyester grafts, where we face stronger competition from larger companies with greater resources and lower production costs. We have also experienced less success in segments such as carotid shunts, where unit sales in the overall market may be declining. While we believe that these challenging market dynamics can be mitigated by our strong relationships with vascular surgeons, there can be no assurance that we will be successful in these highly competitive market segments.

In recent years we have also experienced success in geographic markets outside of the United States, such as Europe, where we generally offer comparatively lower average selling prices. If we continue to seek growth opportunities outside of the United States, we will likely experience downward pressure on our gross margin.

Because we believe that direct-to-hospital sales engender closer customer relationships, and allow for higher selling prices and gross margins, we periodically enter into transactions with our distributors to transition their sales of our medical devices to our direct sales organization:

- During 2014, we entered into definitive agreements with eight former Xenotis distributors in Europe in order to terminate their distribution of our
 Omniflow II biosynthetic vascular grafts and we began selling direct to hospitals in those geographies. The agreements required us to pay
 approximately \$1.3 million in exchange for the purchase of customer lists and inventory.
- During 2015, we entered into definitive agreements with seven former UreSil, LLC distributors in Europe in order to terminate their distribution of our Tru-Incise valvulotome and we began selling direct-to-hospital in those geographies. The termination fee was approximately \$0.2 million
- In August 2015, we entered into a definitive agreement with Grex Medical Oy (Grex), our distributor in Finland, in order to terminate their distribution of our products and we began selling direct-to-hospital in Finland as of January 1, 2016. The termination fee was approximately \$0.2 million.

We anticipate that the expansion of our direct sales organization in China will result in increased sales, marketing and regulatory expenses during 2017. As of December 31, 2016 we had seven employees in China.

Our strategy for growing our business includes the acquisition of complementary product lines and companies and occasionally the discontinuance or divestiture of products or activities that are no longer complementary:

- In August 2014, we acquired all of the capital stock of Xenotis Pty Ltd (Xenotis) for \$6.7 million plus the assumption of \$1.1 million of debt. Xenotis was the parent company of Bio Nova International, the manufacturer and marketer of the Omniflow II biosynthetic vascular graft for lower extremity bypass and AV access.
- In September 2014, we acquired substantially all of the assets related to the angioscope product line from Applied Medical Resource Corporation for \$0.4 million.
- In September 2014, we terminated our UnBalloon non-occlusive modeling catheter product line.
- In May 2015, we acquired the production and distribution rights of UreSil LLC's Tru-Incise valvulotome for sales outside of the United States for \$1.4 million.
- In July 2015, we entered into an asset sales agreement with Merit Medical Ireland Limited to sell our inventory, intellectual property and customer lists associated with The UnBalloon, our non-occlusive modeling catheter product line for \$0.4 million.
- In December 2015, we terminated our InvisiGrip vein stripper product line, and wrote down \$0.1 million of related inventory in Q3 2015.
- In March 2016, we acquired substantially all of the assets as well as the production and distribution rights of the ProCol business from Hancock Jaffe Laboratories and CryoLife, Inc. for \$2.7 million plus 10% of net sales for three years following the closing. ProCol is a biologic vascular graft used for dialysis access, and is approved for sale in the United States.
- In November 2016, we acquired substantially all of the assets related to the peripheral vascular allograft operations of Restore Flow Allografts, LLC for \$12.0 million plus additional payments of up to \$6 million depending upon the satisfaction of certain contingencies.

In addition to relying upon acquisitions to grow our business, we also rely on our product development efforts to bring differentiated technology and next-generation products to market. These efforts have led to the following recent product developments:

- In June 2014, we launched the 1.5mm HYDRO LeMaitre Valvulotome.
- In October 2014, we launched the LeMaitre Aortic Occlusion Catheter.
- In December 2014, we launched the LeMills Valvulotome.
- In December 2015, we launched the 15-cm AnastoClip AC.
- In October 2016, we launched additional sizes of our XenoSure patch.
- In December 2016, we launched the 7.0mm diameter size Omniflow graft.

In addition to our sales growth strategies, we have also executed several operational initiatives designed to consolidate and streamline manufacturing within our Burlington, Massachusetts facilities. We expect that these plant consolidations will result in improved control over our production capacity as well as reduced costs over the long-term. Our most recent manufacturing transitions included:

• In January 2014, we initiated a project to transfer the manufacturing of the newly acquired Clinical Instruments devices to our facility in Burlington. We closed the Clinical Instruments facility in March 2014 and completed the manufacturing transfer during Q2 2014.

- In March 2015, we initiated a project to transfer the manufacturing of the newly acquired angioscope product line to our facility in Burlington. We had been purchasing the devices from Applied Medical since the September 2014 acquisition and completed the transition of manufacturing to our Burlington facility in December 2015.
- In May 2015, we initiated a project to transfer the manufacturing of the newly acquired Tru-Incise valvulotome product line to our facility in Burlington. We have been purchasing the devices from UreSil, LLC since the acquisition. We expect the transition of manufacturing to be completed in 2017.
- In March 2016, we initiated a project to transfer the manufacturing of the newly acquired ProCol biologic product line to our facility in Burlington. We have an agreement to purchase the product from the seller, Hancock Jaffe Laboratories, for up to three years following the closing. We initiated the transfer of the production line and transition of manufacturing in 2016, and we expect it to be complete in 2018, subject to regulatory approval.
- In 2017 we expect to complete the renovation of our manufacturing facility in Burlington, in which we expect most of our biologic offerings, including the XenoSure patch as well as certain biologic grafts, will be produced or processed. We believe the cost of the facility renovation will be approximately \$2.0 million.

Our execution of these business opportunities may affect the comparability of our financial results from period to period and may cause substantial fluctuations from period to period as we incur related process engineering and other charges, as well as longer term impacts to revenues and operating expenditures.

Fluctuations in the rate of exchange between the U.S. dollar and foreign currencies, primarily the Euro, affect our financial results. For the year ended December 31, 2016, approximately 44% of our sales took place outside the United States. We expect that foreign currencies will continue to represent a similarly significant percentage of our sales in the future. Selling, marketing, and administrative costs related to these sales are largely denominated in the same respective currency, thereby partially mitigating our exposure to exchange rate fluctuations. However, as most of our foreign sales are denominated in local currency, if there is an increase in the rate at which a foreign currency is exchanged for U.S. dollars, it will require more of the foreign currency to equal a specified amount of U.S. dollars than before the rate increase. In such cases we will receive less revenue in U.S. dollars than we did before the rate increase went into effect. For the year ended December 31, 2016, we estimate that the effects of changes in foreign exchange rates decreased sales by approximately \$0.2 million, as compared to rates in effect for the year ended December 31, 2015.

Net Sales and Expense Components

The following is a description of the primary components of our net sales and expenses:

Net sales. We derive our net sales from the sale of our products and services, less discounts and returns. Net sales include the shipping and handling fees paid for by our customers. Most of our sales are generated by our direct sales force and are shipped and billed to hospitals or clinics throughout the world. In countries where we do not have a direct sales force, sales are primarily generated by shipments to distributors, who in turn sell to hospitals and clinics. In certain cases our products are held on consignment at a hospital or clinic prior to purchase; in those instances we recognize revenue at the time the product is used in surgery rather than at shipment.

Cost of sales. We manufacture nearly all of the products that we sell. Our cost of sales consists primarily of manufacturing personnel, raw materials and components, depreciation of property and equipment, and other allocated manufacturing overhead, as well as freight expense we pay to ship products to customers.

Sales and marketing. Our sales and marketing expense consists primarily of salaries, commissions, stock based compensation, travel and entertainment, attendance at medical society meetings, training programs, advertising and product promotions, direct mail and other marketing costs.

General and administrative. General and administrative expense consists primarily of executive, finance and human resource expense, stock based compensation, legal and accounting fees, information technology expense, intangible asset amortization expense and insurance expense.

Research and development. Research and development expense includes costs associated with the design, development, testing, enhancement and regulatory approval of our products, principally salaries, laboratory testing and supply costs. It also includes costs associated with design and execution of clinical studies, regulatory submissions and costs to register, maintain, and defend our intellectual property, and royalty payments associated with licensed and acquired intellectual property.

Other income (expense). Other income (expense) primarily includes interest income and expense, foreign currency gains (losses), and other miscellaneous gains (losses).

Income tax expense. We are subject to federal and state income taxes for earnings generated in the United States, which include operating losses in certain foreign jurisdictions for certain years depending on tax elections made, and foreign taxes on earnings of our wholly-owned foreign subsidiaries. Our consolidated tax expense is affected by the mix of our taxable income (loss) in the United States and foreign subsidiaries, permanent items, discrete items, unrecognized tax benefits, and amortization of goodwill for U.S tax reporting purposes.

Results of Operations

Comparison of the year ended December 31, 2016 to the year ended December 31, 2015

The following tables set forth, for the periods indicated, our results of operations and the change between the specified periods expressed as a percentage increase or decrease:

				Percent
	2016	2015	\$ Change	change
		(\$ in thou	ısands)	
Net sales	\$89,151	\$78,352	\$10,799	14%
Net sales by geography:				
Americas	\$53,710	\$47,975	\$ 5,735	12%
International	_35,441	30,377	5,064	17%
Total	<u>\$89,151</u>	\$78,352	\$10,799	14%

Net sales. Net sales increased 14% or \$10.8 million to \$89.2 million for the year ended December 31, 2016, compared to \$78.4 million for the year ended December 31, 2015. Sales increases were primarily driven by increased sales of our biologic vascular patches of \$5.2 million (of which we estimate that \$2.3 million was related to a safety alert initiated by a competitor), valvulotomes of \$1.9 million, vessel closure systems of \$1.5 million and our recently acquired ProCol biologic vascular graft of \$1.0 million. We also had human tissue cryopreservation service revenues from our recently acquired RestoreFlow allograft business of \$0.5 million. These and other product line increases were partially offset by decreased sales of radiopaque tape of \$0.4 million (related primarily to the inclusion in 2015 of \$0.6 million of OEM tape sales).

Direct-to-hospital net sales were 92% for both of the years ended December 31, 2016 and December 31, 2015.

Net sales by geography. Net sales in the Americas increased \$5.7 million for the year ended December 31, 2016. The increase was primarily driven by biologic vascular patches, valvulotomes, vessel closure systems and our recently acquired ProCol biologic vascular graft, and was partially offset by decreased sales of carotid shunts and radiopaque tape. We also had human tissue cryopreservation service revenues in the U.S. from our recently acquired RestoreFlow allograft business of \$0.5 million. International net sales increased \$5.1 million for the

year ended December 31, 2016. The increase occurred across most product lines but was primarily driven by sales of our biologic vascular patches and grafts, valvulotomes, ePTFE vascular grafts and shunts.

				Percent		
	2016	2015	\$ Change	change		
		(\$ in thousands)				
Gross profit	\$62,936	\$54,166	\$8,770	16%		
Gross margin	70.6%	69.1%	*	1.5%		

Not applicable

Gross Profit. Gross profit increased \$8.8 million to \$62.9 million for the year ended December 31, 2016, while gross margin increased by 150 basis points to 70.6% in the period. The gross margin was favorably impacted by higher average selling prices across nearly all product lines, increased sales of XenoSure and valvulotome devices, and lower per-unit manufacturing costs of our biologic patch products as well as other products. These increases were partially offset by higher sales in Europe as well as other markets where we sometimes realize lower gross margins than in the United States. The gross profit increase was a result of higher sales and the improved gross margin.

				Percent	2016 as a %	2015 as a %
	2016	2015	\$ change	change	of Net Sales	of Net Sales
	·		(\$ in	thousands)		
Sales and marketing	\$26,105	\$22,780	\$3,325	15%	29%	29%
General and administrative	14,354	14,010	344	2%	16%	18%
Research and development	6,141	5,479	662	12%	7%	7%
Medical device excise tax	_	744	(744)	(100%)	0%	1%
Gain on divestitures	_	(360)	360	*	*	*
	\$46,600	\$42,653	\$3,947	9%	52%	54%

Not a meaningful percentage.

Sales and marketing. For the year ended December 31, 2016, sales and marketing expense increased \$3.3 million or 15% to \$26.1 million. The increases were primarily driven by compensation-related expenses and travel, due to an increase in the number of sales representatives from 81 at January 1, 2015 to 96 at December 31, 2016. As a percentage of net sales, sales and marketing expense was 29% for both comparative periods.

General and administrative. For the year ended December 31, 2016, general and administrative expense increased \$0.3 million or 2%, to \$14.4 million. General and administrative expense increases were primarily related to compensation costs and acquisition-related expenses, which were partially offset by decreases in recruiting costs, professional fees and bad debt expense. As a percentage of net sales, general and administrative expense decreased to 16% for the year ended December 31, 2016 as compared to 18% for the prior period.

Research and development. For the year ended December 31, 2016, research and development expense increased \$0.7 million or 12%, to \$6.1 million. Product development expenses increased \$0.3 million primarily driven by compensation costs, including costs to support efforts to transition the manufacturing of certain acquired product lines to our Burlington, Massachusetts headquarters. These increases were partially offset by lower spending on supplies and testing. Clinical and regulatory expenses increased \$0.3 million primarily related to compensation costs and professional fees, including costs related to regulatory submission for new products in geographies such as China.

Medical device excise tax. The medical device excise tax was \$0.7 million in 2015. On December 18, 2015, the Consolidated Appropriations Act of 2016 was signed into law, which suspended the medical device tax for the period beginning January 1, 2016 and ending December 31, 2017.

Other income (expense). Foreign exchange losses for 2016 were \$0.2 million as compared to \$0.1 million for 2015.

Income tax expense. We recorded a provision for taxes of \$5.7 million on pre-tax income of \$16.2 million in 2016 as compared to \$3.7 million on pre-tax income of \$11.4 million in 2015. The 2016 provision was comprised of Federal tax provision in the United States of \$4.6 million, state tax provision of \$0.6 million and a foreign tax provision of \$0.5 million. The 2015 provision was comprised of Federal tax in the United States of \$3.2 million, a state tax benefit of \$0.1 million and foreign taxes of \$0.6 million. Our effective tax rate differed from the U.S. statutory tax rate in 2016 principally due to the release of valuation allowances on foreign deferred tax assets, manufacturing deductions, uncertain tax positions, effect of foreign taxes, Subpart-F income, foreign deferred tax liability offset, state taxes, other permanent differences, and other. While it is often difficult to predict the final outcome or timing of the resolution of any particular tax matter, we believe that our tax reserves reflect the probable outcome of known contingencies.

We have assessed the need for a valuation allowance against our deferred tax assets and concluded that as of December 31, 2016, we will continue to carry a valuation allowance against \$1.8 million of deferred tax assets, principally foreign net operating loss and capital loss carry-forwards; based on the weight of available evidence, we believe it is more likely than not that such assets will not be realized.

We expect our effective tax rate to decrease slightly in 2017, as audit adjustments and uncertain tax positions normalize. The state rate increased in 2016 because there was a release of valuation allowance in 2015. We expect the state rate to normalize in 2017.

In 2016, a federal tax audit resulted in a \$0.2 million tax adjustment, which also required a \$0.2 million increase to our uncertain tax positions for a Massachusetts tax credit.

Comparison of the year ended December 31, 2015 to the year ended December 31, 2014

The following tables set forth, for the periods indicated, our results of operations and the change between the specified periods expressed as a percentage increase or decrease:

				Percent			
	2015	2014	\$ Change	change			
		(\$ in thousands)					
Net sales	\$78,352	\$71,097	\$ 7,255	10%			
Net sales by geography:							
Americas	\$47,975	\$43,502	\$ 4,473	10%			
International	30,377	27,595	2,782	10%			
Total	\$78,352	<u>\$71,097</u>	<u>\$ 7,255</u>	<u>10</u> %			

Net sales. Net sales increased 10% to \$78.4 million in 2015 from \$71.1 million in 2014. Sales from newly acquired product lines contributed 4.5% to the sales growth.

The increase in net sales of \$7.3 million in 2015 was primarily driven by increased sales in biologic vascular patches of \$2.9 million, valvulotomes of \$1.7 million and powered phlebectomy systems of \$0.8 million. In addition, sales of biological vascular grafts, which were acquired in 2014, increased net sales in 2015 by \$2.9 million. This sales growth was partially offset by decreased sales of occlusion catheters of \$0.8 million. Across all product lines, we estimate that the strengthening U.S. dollar as compared to 2014 decreased our net sales by \$5.6 million. Average selling prices increased across nearly all product lines, particularly in the valvulotome segment, as the 1.5mm HYDRO valvulotome was introduced in Europe.

Direct-to-hospital net sales were 92% of net sales in 2015 compared to 91% in 2014. This increase was primarily driven by proportionately lower export sales to China of \$0.3 million.

Net sales by geography. Net sales in the Americas increased by \$4.5 million to \$48.0 million in 2015. This increase was primarily driven by increased sales of biologic vascular patches of \$1.9 million, valvulotomes of \$1.0 million and vessel closure systems of \$0.8 million. These increases were partially offset by decreased sales of occlusion catheters of \$0.5 million and cholangiogram catheters of \$0.4 million. International net sales increased by \$2.8 million to \$30.4 million in 2015. This increase was primarily driven by higher sales of biologic vascular grafts of \$2.8 million, biologic vascular patches of \$0.9 million, valvulotomes of \$0.6 million and powered phlebectomy systems of \$0.5 million. These increases were offset by decreased sales of vessel closure systems of \$0.7 million, radiopaque tape of \$0.3 million and catheters of \$0.3 million.

				Percent			
	2015	2014	\$ Change	change			
		(\$ in thousands)					
Gross profit	\$54,166	\$48,431	\$ 5,735	12%			
Gross margin	69.1%	68.1%	*	1.0%			

Not applicable

Gross profit. Gross profit increased by \$5.7 million to \$54.2 million in 2015 from \$48.4 million in 2014, and our gross margin increased by 1.0% to 69.1% in 2015. The gross margin increase in 2015 was largely driven by average selling price increases, particularly with respect to the introduction of our 1.5mm HYDRO valvulotome, as well as increased manufacturing efficiencies, particularly with respect to the XenoSure and AlboGraft product lines. These improvements were partially offset by unfavorable changes in foreign currency exchange rates, as well as increased sales to lower margin geographies such as China and Saudi Arabia. The gross profit increase was also a result of higher sales.

	2015	2014	\$ change	Percent change	2015 as a % of Net Sales	2014 as a % of Net Sales
			(\$ in	thousands)		
Sales and marketing	\$22,780	\$22,087	\$ 693	3%	29%	31%
General and administrative	14,010	13,889	121	1%	18%	20%
Research and development	5,479	4,671	808	17%	7%	7%
Medical device excise tax	744	689	55	8%	1%	1%
Restructuring	_	526	(526)	*	*	1%
Gain on divestitures	(360)	_	(360)	*	*	*
Impairment charges	<u>`—</u> `	229	(229)	*	*	*
	\$42,653	\$42,091	\$ 562	1%	54%	59%

Not a meaningful percentage.

Sales and marketing. Sales and marketing expenses increased to \$22.8 million in 2015 from \$22.1 million in 2014. As a percentage of net sales, sales and marketing expenses were 29% in 2015, down 2% from the prior year. Selling expenses increased \$0.7 million while marketing expenses were unchanged. Selling expense increases in 2015 were driven by higher compensation and related expenses of \$0.7 million and travel and sales meetings and related costs of \$0.3 million. These increases were partially offset by lower consulting costs and other expenses. Additionally, changes in foreign currency exchange rates reduced our sales and marketing expense as compared to 2014.

General and administrative. General and administrative expenses increased by 1% to \$14.0 million in 2015 from \$13.9 million in 2014. As a percentage of net sales, general and administrative expenses were 18% in 2015 as compared to 20% in the prior year. General and administrative expense increases for 2015 were mainly driven

by increased compensation related expenses of \$0.6 million, partially offset by decreases in acquisition related expenses of \$0.5 million as compared to the prior year. Additionally, changes in foreign currency exchange rates reduced our general and administrative expense as compared to 2014.

Research and development. Research and development expenses increased 17% to \$5.5 million in 2015 from \$4.7 million in 2014. As a percentage of net sales, research and development expenses were 7% in both 2015 and 2014. Product development expenses increased \$0.8 million primarily due to higher compensation and related expense of \$0.3 million, higher product testing costs of \$0.2 million and higher professional services and other expenses. Clinical and regulatory costs were unchanged.

Medical device excise tax. The medical device excise tax was \$0.7 million in 2015 and 2014. On December 18, 2015, the Consolidated Appropriations Act of 2016 was signed into law. The Consolidated Appropriations Act of 2016 suspends the medical device tax for the period beginning January 1, 2016 and ending December 31, 2017.

Restructuring. In February 2014, we committed to a plan intended to improve operational efficiencies, which included a reduction in force of approximately 10% of our workforce and other cost-cutting measures, including the transfer of our Clinical Instruments operations to our Burlington headquarters. As a result, we recorded approximately \$0.4 million of severance related restructuring expense. In April 2014, we committed to an additional reduction in force of approximately seven employees. As a result, we recorded approximately \$0.1 million of severance related restructuring expense. The cost of these plans was paid in full in 2014. There were no restructuring charges in 2015.

Gain on divestitures. In July 2015, we entered into an asset sales agreement with Merit Medical Ireland Limited to sell our inventory, intellectual property and customer lists associated with The UnBalloon, our non-occlusive modeling catheter product line for \$0.4 million.

Impairment charges. In 2014 we recognized impairment charges of \$0.2 million related to trademarks, technology, and manufacturing equipment upon the termination of The UnBalloon, our non-occlusive modeling catheter product line.

Other income (expense). Foreign exchange losses for 2015 were \$0.1 million as compared to \$16,000 for 2014.

Income tax expense. We recorded a provision for taxes of \$3.7 million on pre-tax income of \$11.4 million in 2015 as compared to \$2.4 million on pre-tax income of \$6.3 million in 2014. The 2015 provision was comprised of a Federal tax provision in the United States of \$3.2 million, a state tax benefit of \$0.1 million and a foreign tax provision of \$0.6 million. The 2014 provision was comprised of a Federal tax provision in the United States of \$1.9 million, state taxes of \$0.2 million and foreign taxes of \$0.3 million. Our effective tax rate differed from the U.S. statutory tax rate in 2015 principally due to manufacturing deductions, Subpart-F income, state taxes, research and development tax credits, effect of foreign taxes, other permanent differences, and other. While it is often difficult to predict the final outcome or timing of the resolution of any particular tax matter, we believe that our tax reserves reflect the probable outcome of known contingencies.

We assessed the need for a valuation allowance against our deferred tax assets and concluded that as of December 31, 2015, we would continue to carry a valuation allowance against \$2.2 million of deferred tax assets, principally foreign net operating loss and capital loss carry-forwards; based on the weight of available evidence, we believed it was more likely than not that such assets would not be realized. Of the \$2.2 million of valuation allowance, \$2 million resulted from the Xenotis acquisition in Australia.

In 2015, a Massachusetts valuation allowance was reversed, which lowered our overall effective tax rate by 3.5%.

Liquidity and Capital Resources

At December 31, 2016, our cash and cash equivalents were \$24.3 million as compared to \$27.5 million at December 31, 2015. Our cash and cash equivalents are highly liquid investments with maturities of 90 days or less at the date of purchase, consist of money market funds, and are stated at cost, which approximates fair value. All of our cash held outside of the United States is available for corporate use, with the exception of \$4.6 million held by subsidiaries in jurisdictions for which earnings are planned to be permanently reinvested.

On July 25, 2016, our Board of Directors approved a stock repurchase program under which the Company is authorized to repurchase up to \$5 million of its common stock through transactions on the open market, in privately negotiated purchases or otherwise. This program may be suspended or discontinued at any time, and expires on the earlier of July 25, 2017 or when the authorized aggregate \$5 million repurchase limit is reached. To date we have not made any repurchases under this program.

Operating and Capital Expenditure Requirements

We require cash to pay our operating expenses, make capital expenditures, and pay our long-term liabilities. Since our inception, we have funded our operations through public offerings and private placements of equity securities, short-term and long-term borrowings, and funds generated from our operations.

We recognized operating income of \$16.3 million for the year ended December 31, 2016. For the year ended December 31, 2015, we recognized operating income of \$11.5 million. We expect to fund any increased costs and expenditures from our existing cash and cash equivalents, though our future capital requirements depend on numerous factors. These factors include, but are not limited to, the following:

- the revenues generated by sales of our products;
- payments associated with potential future quarterly cash dividends to our common stockholders;
- payments associated with our stock repurchase program;
- future acquisition-related payments;
- payments associated with U.S income and other taxes;
- the costs associated with expanding our manufacturing, marketing, sales, and distribution efforts;
- the costs associated with our initiatives to sell direct-to-hospital in new countries;
- the costs of obtaining and maintaining FDA and other regulatory clearances of our existing and future products; and
- the number, timing, and nature of acquisitions and other strategic transactions.

Our cash balances may decrease as we continue to use cash to fund our operations, make acquisitions, make payments under our quarterly dividend program, repurchase shares of our common stock and make deferred payments related to prior acquisitions. We believe that our cash, cash equivalents, investments and the interest we earn on these balances will be sufficient to meet our anticipated cash requirements for at least the next twelve months. If these sources of cash are insufficient to satisfy our liquidity requirements beyond the next twelve months, we may seek to sell additional equity or debt securities or borrow funds from, or establish a revolving credit facility, with a financial institution. The sale of additional equity and debt securities may result in dilution to our stockholders. If we raise additional funds through the issuance of debt securities, such securities could have rights senior to those of our common stock and could contain covenants that would restrict our operations and possibly our ability to pay dividends. 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.

Cash Flows

	Year ended I	Year ended December 31,		
	2016	2015	Change	
		(\$ in thousands)		
Cash and cash equivalents	\$ 24,288	\$27,451	\$ (3,163)	
Cash flows provided by (used in):				
Operating activities	\$ 16,896	\$11,438	\$ 5,458	
Investing activities	(17,211)	(3,480)	(13,731)	
Financing activities	(2,577)	1,079	(3,656)	

Net cash provided by operating activities. Net cash provided by operating activities was \$16.9 million for the year ended December 31, 2016, and consisted of \$10.6 million net income, adjusted for non-cash items of \$5.9 million (including depreciation and amortization of \$3.6 million, stock-based compensation of \$1.7 million, provisions for inventory write-offs and doubtful accounts of \$0.5 million and provision for deferred taxes of \$0.1 million), as well as changes in working capital of \$0.4 million. The net cash provided by changes in working capital was driven by decreases in other current assets of \$1.5 million, including primarily prepaid taxes, partially offset by increases in accounts receivable of \$0.9 million and inventory of \$0.1 million, and a decrease in accounts payable and other liabilities of \$0.1 million.

Net cash provided by operating activities was \$11.4 million in 2015, and consisted of \$7.8 million in net income, adjusted for non-cash items of \$4.3 million (including depreciation and amortization of \$3.4 million, stock-based compensation of \$1.4 million, and provision for inventory write-offs of \$0.5 million) and was offset by working capital increases of \$0.7 million. Working capital increases were driven primarily by increased prepaid expenses, including primarily prepaid taxes, of \$2.0 million and accounts receivable of \$1.9 million, offset by increased accounts payable and other liabilities of \$2.6 million.

Net cash used in investing activities. Net cash used in investing activities was \$17.2 million for year ended December 31, 2016, driven by \$14.4 million of cash paid in connection with our acquisitions of the ProCol biologic vascular graft and RestoreFlow allograft businesses, as well as purchases of property and equipment of \$2.8 million primarily associated with the expansion of our Burlington, Massachusetts headquarters.

Net cash used in investing activities was \$3.5 million in 2015. This was driven by the purchase of property and equipment of \$2.3 million and acquisition related payments of \$1.6 million, primarily related to the Tru-Incise acquisition and related distributor buyouts, partially offset by proceeds from the sale of the UnBalloon modeling catheter assets of \$0.4 million.

Net cash used in financing activities. Net cash used in financing activities was \$2.6 million for the year ended December 31, 2016, driven primarily by payments of common stock dividends of \$3.3 million, partially offset by proceeds from stock option exercise, net of shares repurchased for taxes, of \$1.1 million. We also made payments related to our prior acquisitions of \$0.4 million.

Net cash provided by financing activities was \$1.1 million in 2015, driven primarily by proceeds from stock option exercises of \$4.8 million partially offset by payments of common stock dividends of \$2.8 million, payment of deferred acquisition payments of \$1.1 million, and the acquisition of \$0.3 million of treasury stock to cover minimum withholding taxes of restricted stock unit vestings.

Dividends. In February 2011, our Board of Directors approved a policy for the payment of quarterly cash dividends on our common stock. Future declarations of quarterly dividends and the establishment of future record and payment dates are subject to approval by our Board of Directors on a quarterly basis. The dividend activity for the periods presented is as follows:

Record Date	Payment Date	Per Share Amount	Dividend Payment
		·	(in thousands)
Fiscal Year 2016			
March 21, 2016	April 4, 2016	\$0.045	\$825
May 25, 2016	June 8, 2016	\$0.045	\$829
August 22,2016	September 2, 2016	\$0.045	\$833
November 21, 2016	December 5, 2016	\$0.045	\$836
Fiscal Year 2015			
March 20, 2015	April 3, 2015	\$0.040	\$700
May 22, 2015	June 5, 2015	\$0.040	\$705
August 20, 2015	September 3, 2015	\$0.040	\$715
November 20, 2015	December 4, 2015	\$0.040	\$725

On February 16, 2017, our Board of Directors approved a quarterly cash dividend on our common stock of \$0.055 per share payable on April 6, 2017, to stockholders of record at the close of business on March 22, 2017, which will total approximately \$1.0 million in payments.

		Less			More
		than	1-3	3-5	than
Contractual obligations	Total	1 year	years	years	5 years
	·		(in thousands)		
Operating leases	\$ 8,498	\$1,546	\$2,703	\$2,217	\$2,032
Purchase commitments for inventory	2,418	2,393	25		
Total contractual obligations	\$10,916	\$3,939	\$2,728	\$2,217	\$2,032

Contractual obligations. Our principal contractual obligations consist of operating leases and inventory purchase commitments. The following table summarizes our commitments to settle contractual obligations as of December 31, 2016:

The commitments under our operating leases consist primarily of lease payments for our corporate headquarters and manufacturing facility in Burlington, Massachusetts, expiring in 2023; our Mississauga, Canada office, expiring in 2018; our Sulzbach, Germany office, expiring in 2023; our Tokyo, Japan office, expiring in 2016 at which point it becomes automatically renewable for specified periods; our Milan, Italy office, expiring in 2020; our Madrid, Spain office, expiring in 2017; our two Australia facilities expiring in 2020; our Shanghai, China office, expiring in 2020; and our Fox River Grove offices, expiring in 2018. They also include automobile and equipment leases.

The purchase commitments for inventory are to be used in operations over the normal course of business and do not represent excess commitments or loss contracts.

Critical Accounting Policies and Estimates

We have adopted various accounting policies to prepare our consolidated financial statements in accordance with U.S. generally accepted accounting principles (GAAP). Our most significant accounting policies are described in Note 1 to our consolidated financial statements included elsewhere in this Annual Report on Form 10-K. The preparation of our consolidated financial statements in conformity with GAAP requires us to make estimates and assumptions that affect the amounts reported in our consolidated financial statements and

accompanying notes. Our estimates and assumptions, including those related to bad debts, inventories, intangible assets, sales returns and discounts, and income taxes are reviewed on an ongoing basis and updated as appropriate. Actual results could differ from those estimates.

Certain of our more critical accounting policies require the application of significant judgment by management in selecting the appropriate assumptions for calculating financial estimates. By their nature, these judgments are subject to an inherent degree of uncertainty. These judgments are based on our historical experience, terms of existing contracts, and observance of trends in the industry, as appropriate. Different, reasonable estimates could have been used in the current period. Additionally, changes in accounting estimates are reasonably likely to occur from period to period. Both of these factors could have a material impact on the presentation of our financial condition, changes in financial condition, or results of operations.

We believe that the following financial estimates and related accounting policies are both important to the portrayal of our financial condition and results of operations and require subjective or complex judgments. Further, we believe that the items discussed below are properly recorded in our consolidated financial statements for all periods presented. Management has discussed the development, selection and disclosure of our most critical financial estimates with the audit committee of our board of directors and our independent registered public accounting firm. The judgments about those financial estimates are based on information available as of the date of our consolidated financial statements. Those financial estimates and related policies include:

Revenue Recognition

Our revenue is derived primarily from the sale of disposable or implantable devices used during vascular surgery. We sell primarily directly to hospitals and to a lesser extent to distributors, as described below. We also occasionally enter into consigned inventory arrangements with either hospitals or distributors on a limited basis. In connection with our recent acquisition of the RestoreFlow allograft business, we also derive revenues from human tissue cryopreservation services. These revenues are recognized when services have been provided and the tissue has been shipped to the customer, provided all other revenue recognition criteria discussed below have been met.

We recognize revenue when four basic criteria are met: (1) persuasive evidence of an arrangement exists; (2) delivery has occurred or services have been rendered; (3) the fee is fixed or determinable; and (4) collectability is reasonably assured. We generally use customer purchase orders or contracts to determine the existence of an arrangement. Sales transactions are based on prices that are determinable at the time that the customer's purchase order is accepted by us. In order to determine whether collection is reasonably assured, we assess a number of factors, including past transaction history with the customer and the creditworthiness of the customer. If we determine that collection is not reasonably assured, we would defer the recognition of revenue until collection becomes reasonably assured, which is generally upon receipt of payment. We provide for product returns at the time revenue is recognized based on our historical product return history. Based on these policies, we recognize revenue, net of allowances for returns and discounts, as products are shipped, based on shipping point terms, or at the time consigned inventory is consumed at which time title passes to customers. We recognize revenue net of allowances for returns and discounts as well as any sales and value added taxes required to be invoiced, at the time of shipment of our products to our distributors.

Accounts Receivable

Our accounts receivable are with customers based in the United States and internationally. Accounts receivable generally are due within 30 to 90 days of invoice and are stated at amounts due from customers, net of an allowance for doubtful accounts and sales returns, other than in certain European markets where longer payment terms are customary and may range from 90 to 240 days. We perform ongoing credit evaluations of the financial condition of our customers and adjust credit limits based upon payment history and the current creditworthiness of the customers, as determined by a review of their current credit information. We continuously monitor aging reports, collections, and payments from customers, and maintain a provision for estimated credit losses based upon historical experience and any specific customer collection issues we identify.

We closely monitor outstanding receivables for potential collection risks, including those that may arise from economic conditions, in both the U.S. and international economies. Our European sales to government-owned or supported customers such as hospitals, distributors and agents, in Southern Europe, specifically Italy and Spain may be subject to significant payment delays due to government austerity measures impacting funding and payment practices. As of December 31, 2016 our receivables in Italy and Spain totaled \$0.8 million and \$0.4 million, respectively. Receivables balances with certain publicly-owned hospitals and government supported customers in these countries can accumulate over a period of time and then subsequently be settled as large lump sum payments. While we believe our allowance for doubtful accounts in these countries is adequate as of December 31, 2016, if significant changes were to occur in the payment practices of these European governments or if government funding becomes unavailable, we may not be able to collect on receivables due to us from these customers and our write offs of uncollectible amounts may increase.

We write off accounts receivable when they become uncollectible. While such credit losses have historically been within our expectations and allowances, we cannot guarantee the same credit loss rates will be experienced in the future. The allowance for doubtful accounts is our best estimate of the amount of probable credit losses in our existing accounts receivable. We review our allowance for doubtful accounts on a monthly basis and all past due balances are reviewed individually for collectability. The provision for the allowance for doubtful accounts is recorded in general and administrative expenses.

Inventory and Other Deferred Costs

Inventory consists of finished products, work-in-process, and raw materials. We value inventory at the lower of cost or market value. Cost includes materials, labor, and manufacturing overhead and is determined using the first-in, first-out (FIFO) method. On a quarterly basis, we review inventory quantities on hand and analyze the provision for excess and obsolete inventory based primarily on product expiration dating and our estimated sales forecast, which is based on sales history and anticipated future demand. Our estimates of future product demand may not be accurate, and we may understate or overstate the provision required for excess and obsolete inventory. Accordingly, any significant unanticipated changes in demand could have a significant impact on the value of our inventory and results of operations.

In connection with our recent acquisition of the RestoreFlow allograft business, other deferred costs include costs incurred for the preservation of human vascular tissues available for shipment, tissues currently in active processing, and tissues held in quarantine pending release to implantable status. By federal law human tissues cannot be bought or sold. Therefore, the tissues we preserve are not held as inventory, and the costs we incur to procure and process human vascular tissues are instead accumulated and deferred.

Stock-based Compensation

We recognize, as expense, the estimated fair value of stock options to employees which is determined using the Black-Scholes option pricing model. We have elected to recognize the compensation cost of all share-based awards on a straight-line basis over the vesting period of the award. In periods that we grant stock options, fair value assumptions are based on volatility, interest rates, dividend yield, and expected term over which the stock options will be outstanding. The computation of expected volatility is based on the historical volatility of the company's stock. The interest rate for periods within the contractual life of the award is based on the U.S. Treasury risk-free interest rate in effect at the time of grant. Historical data on exercise patterns is the basis for estimating the expected life of an option. The expected annual dividend rate was calculated by dividing our annual dividend, based on the most recent quarterly dividend rate, by the closing stock price on the grant date.

We also issue restricted stock units (RSUs) as an additional form of equity compensation to our employees, officers, and directors, pursuant to our stockholder-approved Second Amended and Restated 2006 Stock Option and Incentive Plan. RSUs entitle the grantee to an issuance of stock at no cost and generally vest over a period of time determined by our Board of Directors at the time of grant based upon the continued service to the company.

The fair market value of the award is determined based on the number of RSUs granted and the market value of our common stock on the grant date and is amortized to expense over the period of vesting. Unvested RSUs are forfeited and canceled as of the date that employment or service to the company terminates. RSUs are settled in shares of our common stock upon vesting. We may repurchase common stock upon our employees' vesting in RSUs in order to cover any minimum tax withholding liability as a result of the RSUs having vested.

Share-based compensation charges had in prior years been recorded net of the estimated forfeitures based upon historical forfeiture rates, and was adjusted in subsequent periods to reflect the results of actual forfeitures and vesting. In March 2016, the Financial Accounting Standards Board ("FASB") issued a new standard that changes the accounting for certain aspects of share-based payments to employees, including a provision allowing companies to make an election to account for award forfeitures as they occur, rather than estimating them at the time of grant. We early-adopted the new guidance in the third quarter of fiscal year 2016, which required us to reflect any adjustments as of January 1, 2016, the beginning of the annual period that includes the interim period of adoption. In connection with this early adoption we made the election to account for award forfeitures as they occur, and we recorded a cumulative-effect adjustment to beginning retained earnings of \$0.1 million, net of tax. Share-based compensation charges are recorded across the consolidated statement of operations based upon the grantee's primary function.

As disclosed more fully in the notes to our consolidated financial statements, we recorded expense of approximately \$1.7 million in connection with share-based payment awards for the year ended December 31, 2016. The future expense of non-vested share-based awards of approximately \$6.1 million is to be recognized over a weighted-average period of 3.8 years. During 2016, we granted stock options at a weighted average fair value of \$4.04 and RSUs with weighted average fair value of \$14.14.

Valuation of Goodwill, and Other Intangibles

Goodwill represents the amount of consideration paid in connection with business acquisitions in excess of the fair value of assets acquired and liabilities assumed. Goodwill is evaluated for impairment annually or more frequently if indicators of impairment are present or changes in circumstances suggest that an impairment may exist. Our assessment is performed as of December 31 each year based on a single reporting unit. We first perform an assessment of qualitative factors to determine if it is "more likely than not" that the fair value of our reporting unit is less than its carrying value as a basis for determining whether it is necessary to perform the two-step goodwill impairment test. The "more likely than not" threshold is defined as having a likelihood of more than 50 percent. If required, the next step of the goodwill impairment test is to determine the fair value of the reporting unit. The implied fair value of goodwill is determined on the same basis as the amount of goodwill recognized in connection with a business combination. Specifically, the fair value of a reporting unit is allocated to all of the assets and liabilities (including any unrecognized intangible assets) as if the reporting unit had been acquired in a business combination as of the date of the impairment review and as if the fair value of the reporting unit was the price paid to acquire the reporting unit. The excess of the fair value of a reporting unit over the amounts assigned to its assets and liabilities is the implied fair value of goodwill. If the carrying amount of the reporting unit goodwill exceeds the implied fair value of that goodwill, an impairment loss shall be recognized in an amount equal to that excess. Goodwill was \$23.4 million and \$17.8 million as of December 31, 2016 and 2015, respectively. Our annual impairment testing indicated no significant risk of impairment based upon changes in value that are reasonably likely to occur. However, changes in these estimates and assumptions could materially affect the esti

Other intangible assets consist primarily of purchased developed technology, patents, customer relationships and trademarks, and are amortized over their estimated useful lives, ranging from 1 to 13 years. We review intangible assets quarterly to determine if any adverse conditions exist for a change in circumstances has occurred that would indicate impairment. Conditions that may indicate impairment include, but are not limited to, a significant adverse change in legal factors or business climate that could affect the value of the asset, a change in the operating cash flows associated with the asset, or adverse action or assessment by a regulator. If an impairment indicator exists we test the intangible asset for recoverability. If the carrying value of the intangible

asset exceeds the undiscounted cash flows expected to result from the use and eventual disposition of the intangible asset, we will write the carrying value down to the fair value in the period in which it is identified. We generally calculate the fair value of our intangible assets as the present value of estimated future cash flows we expect to generate from the asset using a risk-adjusted discount rate. In determining our estimated future cash flows associated with our intangible assets, we use estimates and assumptions about future revenue contributions, cost structures, and remaining useful lives of the asset. These estimates and assumptions require significant judgment and actual results may differ from assumed or estimated amounts. Other intangible assets, net of accumulated amortization, were \$9.9 million as of December 31, 2016 and \$6.3 million as of December 31, 2015. In 2014, we recognized an impairment charge of \$0.2 million related to trademarks and technology upon the termination of our non-occlusive modeling catheter product line.

Contingencies

In the normal course of business, we are subject to proceedings, lawsuits, and other claims and assessments for matters related to, among other things, patent infringement, business acquisitions, employment, product liability and product recalls. We assess the likelihood of any adverse judgments or outcomes to these matters as well as potential ranges of probable losses. A determination of the amount of reserves required, if any, for these contingencies is made after careful analysis of each individual issue. The required reserves may change in the future due to new developments in each matter or changes in approach such as a change in settlement strategy in dealing with these matters. We record charges for the costs we anticipate incurring in connection with litigation and claims against us when we determine a loss is probable and we can reasonably estimate these costs. During the years ended December 31, 2016, 2015, and 2014, we were not subject to any material litigation, claims or assessments.

Restructuring

We record restructuring charges incurred in connection with consolidation or relocation of operations, exited business lines, reductions in force, or distributor terminations. These restructuring charges, which reflect our commitment to a termination or exit plan that will begin within twelve months, are based on estimates of the expected costs associated with site closure, legal matters, contract terminations, severance payments, or other costs directly related to the restructuring. If the actual cost incurred exceeds the estimated cost, an additional charge to earnings will result. If the actual cost is less than the estimated cost, a credit to earnings will be recognized.

Income Taxes

As part of the process of preparing our consolidated financial statements we are required to determine our income taxes in each of the jurisdictions in which we operate. This process involves estimating our actual current tax expense together with assessing temporary differences resulting from recognition of items for income tax and accounting purposes. These differences result in deferred tax assets and liabilities, which are included within our consolidated balance sheet. We must then assess the likelihood that our deferred tax assets will be recovered from taxable income during the carryback period or in the future; and to the extent we believe that recovery is not likely, we must establish a valuation allowance. To the extent we establish a valuation allowance or increase this allowance in a period, we must reflect this increase as an expense within the tax provision in the statement of operations. We do not provide for income taxes on undistributed earnings of foreign subsidiaries, as our current intention is to permanently reinvest these earnings.

We recognize, measure, present and disclose in our financial statements, uncertain tax positions that we have taken or expect to take on a tax return. We operate in multiple taxing jurisdictions, both within the United States and outside of the United States and may be subject to audits from various tax authorities regarding transfer pricing, the deductibility of certain expenses, intercompany transactions, and other matters. Within specific countries, we may be subject to audit by various tax authorities operating within the country and may be

subject to different statutes of limitation expiration dates. Management's judgment is required in determining our provision for income taxes, our deferred tax assets and liabilities, liabilities for uncertain tax positions, and any valuation allowance recorded against our net deferred tax assets. We will continue to monitor the realizability of our deferred tax assets and adjust the valuation allowance accordingly. We have recorded a valuation allowance on our net deferred tax assets of \$1.8 million and \$2.2 million as of December 31, 2016 and 2015, respectively.

Recent Accounting Pronouncements

In January 2017, the Financial Accounting Standards Board ("FASB") issued an accounting standards update, ASU 2017-01, which changes the definition of a business for purposes of determining whether a business has been acquired or sold. The amendment is intended to help companies evaluate whether transactions should be accounted for as acquisitions (or disposals) of assets or businesses. The new standard is effective for us beginning January 1, 2018, with early adoption permitted. The adoption of this standard is not expected to have a material impact on our financial statements.

In August 2016, the FASB issued an accounting standards update, ASU 2016-15, which changes the classification of certain cash receipts and cash payments within the statement of cash flows. The new standard is effective for us beginning January 1, 2018, with early adoption permitted. The adoption of this standard is not expected to have a material impact on our financial statements.

In March 2016, the FASB issued ASU 2016-09, Compensation — Stock Compensation, Improvements to Employee Share-Based Payment Accounting, which the Company elected to early adopt during the third quarter of 2016. ASU 2016-09 requires an entity to recognize all excess tax benefits and tax deficiencies in connection with stock-based compensation as income tax expense or benefit in the income statement (previously, excess tax benefits were recognized in additional paid-in capital). We adopted the standard prospectively, and we recorded excess tax benefits of \$0.3 million within income tax expense for the year ended December 31, 2016. The adoption of the standard requires the Company to adjust its deferred tax assets to account for the benefit of excess tax benefits and any adjustments to forfeitures in historical periods and record the adjustment to retained earnings. Accordingly, the Company has recorded an adjustment of approximately \$0.1 million to retained earnings to adjust its deferred tax assets. In addition, the amendments require recognition of excess tax benefits regardless of whether the benefit reduces taxes payable in the current period. Furthermore, the amendments require that excess tax benefits be classified as an operating activity in the statement of cash flows (such amounts were previously included as a financing activity in the statement of cash flows); the Company also adopted this provision of ASU 2016-09 prospectively. As allowed by the standard, we also made an election to account for award forfeitures as they occur, rather than estimating them at the time of grant. In connection with this election we recorded a cumulative-effect adjustment to beginning retained earnings of \$0.1 million, net of taxes.

In February 2016, the FASB issued its new lease accounting guidance in Accounting Standards Update (ASU) No. 2016-02, Leases (Topic 842). Under the new guidance, lessees will be required to recognize the following for all leases (with the exception of short-term leases) at the commencement date: a lease liability, which is a lessee's obligation to make lease payments arising from a lease, measured on a discounted basis; and a right-of-use asset, which is an asset that represents the lessee's right to use, or control the use of, a specified asset for the lease term. The new lease guidance simplifies the accounting for sale and leaseback transactions primarily because lessees must recognize lease assets and lease liabilities. Lessees will no longer be provided with a source of off-balance sheet financing. The standard is effective for public companies for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years (i.e., January 1, 2019, for a calendar year entity). Early application is permitted. Lessees (for capital and operating leases) and lessors (for sales-type, direct financing, and operating leases) must apply a modified retrospective transition approach for leases existing at, or entered into after, the beginning of the earliest comparative period presented in the financial statements. The modified retrospective approach would not require any transition accounting for leases that expired before the earliest comparative period presented. Lessees and lessors may not apply a full retrospective transition approach. We have not yet determined the impact on our consolidated financial statements.

In July 2015, the FASB issued ASU No. 2015-11, *Inventory (Topic 330): Simplifying the Measurement of Inventory*, or ASU 2015-11. ASU 2015-11 requires an entity to measure in-scope inventory at the lower of cost and net realizable value. ASU 2015-11 is effective for fiscal years beginning after December 15, 2016, and for interim periods within those fiscal years. A reporting entity should apply ASU 2015-11 prospectively with earlier application permitted as of the beginning of an interim or annual reporting period. We do not expect the adoption of this ASU to have a material impact on our consolidated financial statements.

In May 2014, the FASB and the International Accounting Standards Board (the "IASB") issued substantially converged final standards on revenue recognition. The FASB's Accounting Standards Update ("ASU") No. 2014-09, Revenue from Contracts with Customers (Topic 606), as amended from time to time, outlines a single comprehensive model for entities to use in accounting for revenue arising from contracts with customers and supersedes most current revenue recognition guidance, including industry-specific guidance. The new revenue recognition guidance becomes effective for the Company on January 1, 2018, with early adoption permitted for the Company on January 1, 2017. Entities have the option of using either a full retrospective or a modified approach to adopt the guidance in the ASU. The Company does not currently expect that adoption of the updated standard will have a material impact on its consolidated financial statements and related disclosures.

Off-Balance Sheet Arrangements

We did not have any off-balance sheet arrangements as of December 31, 2016. We do not currently have, nor have we ever had, any relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities, which would have been established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes. In addition, we do not engage in trading activities involving non-exchange traded contracts. As a result, we are not materially exposed to any financing, liquidity, market or credit risk that could arise if we had engaged in these relationships.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

In the ordinary course of conducting business, we are exposed to certain risks associated with potential changes in market conditions. These market risks include changes in currency exchange rates and interest rates which could affect operating results, financial position and cash flows. We manage our exposure to these market risks through our regular operating and financing activities and, if considered appropriate, we may enter into derivative financial instruments such as forward currency exchange contracts, although we have not done so in 2016 or in recent years.

Foreign Currency Risk

During fiscal 2016 and 2015, 44% and 42%, respectively, of our total revenue was from customers outside of the United States. In addition, a significant portion of our operating costs incurred outside the United States are denominated in currencies other than the U.S. dollar. We conduct business on a worldwide basis and as a result, a portion of our revenue, earnings, net assets, and net investments in foreign affiliates is exposed to changes in foreign currency exchange rates. We measure our net exposure for cash balance positions and for cash inflows and outflows in order to evaluate the need to mitigate our foreign exchange risk. We may enter into foreign currency forward contracts to minimize the impact related to unfavorable exchange rate movements, although we have not done so during fiscal 2016 and fiscal 2015. Our largest exposures to foreign currency exchange rates exist primarily with the Euro, British Pound, Canadian dollar, Australian dollar and Japanese yen.

During fiscal 2016 and fiscal 2015, we recorded \$0.2 million and \$0.1 million of net foreign currency exchange losses related to the settlement and remeasurement of transactions denominated in currencies other than the functional currency of our operating subsidiaries. Our analysis of operating results transacted in various foreign currencies indicated that a hypothetical 10% change in the foreign currency exchange rates could have increased or decreased the consolidated results of operations by approximately \$1.7 million for fiscal 2016.

Interest Rate Risk

At December 31, 2016, we held \$24.3 million in cash and cash equivalents. Due to the short maturities on any instruments held, a hypothetical 10% increase or decrease in interest rates would not have a material impact on our financial position, results of operations or cash flows.

Item 8. Financial Statements and Supplementary Data

See the consolidated financial statements filed as part of this Annual Report on Form 10-K as listed under Item 15 below.

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

Not Applicable.

Item 9A. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Our management, with the participation and supervision of our Chief Executive Officer and Chief Financial Officer, is responsible for our disclosure controls and procedures pursuant to Rules 13a-15(e) and 15d-15(e) under the Exchange Act. Disclosure controls and procedures are controls and other procedures that are designed to ensure that information required to be disclosed in our reports filed or submitted under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified under SEC rules and forms. Disclosure controls and procedures include controls and procedures designed to ensure that information required to be disclosed in our reports filed under the Exchange Act is accumulated and communicated to our principal executive officer and our principal financial officer, as appropriate, to allow timely decisions regarding required disclosure.

Management conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework in Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this evaluation, management concluded that the company's internal control over financial reporting was effective as of December 31, 2016.

Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) to provide reasonable assurance regarding the reliability of our financial reporting and the preparation of financial statements for external purposes in accordance with GAAP.

Management assessed the effectiveness of our internal controls over financial reporting as of December 31, 2016. Management based its assessment on criteria established in the *Internal Control — Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 Framework). Management's assessment included evaluation of elements such as the design and operating effectiveness of key financial reporting controls, process documentation, accounting policies, and our overall control environment. In November 2016, we acquired substantially all of the assets of the RestoreFlow allograft business from Restore Flow Allografts LLC. This acquired business, which during 2016 comprised 0.6% of our revenues and as of December 31, 2016 comprised 3.3% of our total assets, is excluded from our report on internal control over financial reporting.

Based on this assessment under the criteria set forth in the *Internal Control — Integrated Framework*, management has concluded that our internal control over financial reporting was effective as of December 31, 2016.

Our internal control over financial reporting as of December 31, 2016 has been audited by Grant Thornton LLP, an independent registered public accounting firm, as stated in their respective report which is included herein.

Remediation of Prior Year Material Weakness

The material weakness that was previously disclosed as of December 31, 2015 was remediated as of December 31, 2016. See Management's Report on Internal Control over Financial Reporting above. As disclosed in the quarterly reports on Form 10-Q for the first three quarters of 2016, the Company has implemented and executed the Company's remediation plans, and as of December 31, 2016, such remediation plans were successfully tested and the material weakness was deemed remediated.

Changes in Internal Control over Financial Reporting

Except for the acquisition of the RestoreFlow allograft business noted above under "Management's Report on Internal Control Over Financial Reporting", there was no change in our internal control over financial reporting that occurred during the fiscal quarter ended December 31, 2016, that has materially affected, or is reasonably likely to materially affect our internal control over financial reporting. Management is in the process of assessing the effectiveness of internal control over financial reporting for the acquired business.

Inherent Limitations of Internal Controls

Notwithstanding the foregoing, our management, including our Chief Executive Officer and Chief Financial Officer, does not expect that our disclosure controls and procedures or our internal controls will prevent all error and all fraud. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within the company have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty, and that breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the control. The design of any system of controls also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Over time, control may become inadequate because of changes in conditions, or the degree of compliance with the policies or procedures may deteriorate. Because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Board of Directors and Shareholders **LeMaitre Vascular**, **Inc.**

We have audited the internal control over financial reporting of LeMaitre Vascular, Inc. (a Delaware corporation) and subsidiaries (the "Company") as of December 31, 2016, based on criteria established in the 2013 Internal Control — Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying "Management's Report on Internal Control Over Financial Reporting", ("Management's Report"). Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. Our audit of, and opinion on, the Company's internal control over financial reporting does not include the internal control over financial reporting of the RestoreFlow allograft business, whose financial statements reflect total assets and revenues constituting 3.3 percent and 0.6 percent, respectively, of the related consolidated financial statement amounts as of and for the year ended December 31, 2016. As indicated in Management's Report, the RestoreFlow allograft business was acquired during the fourth quarter of 2016. Management's assertion on the effectiveness of the Company's internal control over financial reporting excluded internal control over financial reporting of the RestoreFlow allograft business.

We conducted our audit 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 effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2016, based on criteria established in the 2013 Internal Control — Integrated Framework issued by COSO.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated financial statements of the Company as of and for the year ended December 31, 2016, and our report dated March 8, 2017 expressed an unqualified opinion on those financial statements.

/s/ GRANT THORNTON LLP Boston, Massachusetts March 8, 2017

Item 9B. Other Information

Not Applicable.

PART III

Item 10. Directors, Executive Officers and Corporate Governance

The information responsive to this item is incorporated by reference herein from the information to be contained in the sections entitled "Directors, Executive Officers and Key Employees," "Corporate Governance," and "Meetings and Committees of the Board of Directors" in our 2017 definitive proxy statement (2017 Definitive Proxy Statement) for the 2017 annual meeting of stockholders to be filed with the Securities and Exchange Commission within 120 days after the year ended December 31, 2016.

The information required by this item concerning compliance with Section 16(a) of the Exchange Act is incorporated herein by reference from the information contained in the section entitled "Section 16(a) Beneficial Ownership Reporting Compliance" in our 2017 Definitive Proxy Statement.

Code of Ethics

Certain documents relating to our corporate governance, including our Code of Business Conduct and Ethics, which is applicable to our directors, officers, and employees, and the charters of the Audit Committee, Compensation Committee, and Corporate Governance and Nominating Committee of our Board of Directors, are available on our website at http://www.lemaitre.com. We intend to disclose substantive amendments to or waivers (including implicit waivers) of any provision of the Code of Business Conduct and Ethics that apply to our principal executive officer, principal financial officer, principal accounting officer, or controller, or persons performing similar functions, by posting such information on our website available at http://www.lemaitre.com.

Item 11. Executive Compensation

The information responsive to this item is incorporated herein by reference from the information to be contained in the section entitled "Compensation of Executive Officers and Directors" in our 2017 Definitive Proxy Statement.

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The information responsive to this item is incorporated herein by reference from the information to be contained in the section entitled "Security Ownership of Certain Beneficial Owners and Management" in our 2017 Definitive Proxy Statement.

Equity Compensation Plan Information

The following table sets forth information regarding our equity compensation plans in effect as of December 31, 2016. Each of our equity compensation plans is an "employee benefit plan" as defined by Rule 405 of Regulation C of the Securities Act of 1933, as amended.

			securities remaining available for
			available for future
			issuance
			under
			equity
	Number of securities		compensation
	to be issued upon	Weighted-average	plans (excluding
	exercise of	exercise price of	securities
	outstanding	outstanding	reflected
	options,	options, warrants	in column
Plan category	warrants and rights	and rights	(a))
	(a)	(b)	(c)
Equity compensation plans approved by security holders	2,218,783	\$ 10.25	1,745,953
Equity compensation plans not approved by security holders			
Total	2,218,783	\$ 10.25	1,745,953

Number of

Item 13. Certain Relationships and Related Transactions, and Director Independence

The information required responsive to this item is incorporated herein by reference from the information to be contained in the sections entitled "Certain Relationships and Related Transactions" and "Corporate Governance" in our 2017 Definitive Proxy Statement.

Item 14. Principal Accounting Fees and Services

The information responsive to this item is incorporated herein by reference from the information to be contained in the sections entitled "Ratification of Independent Registered Public Accounting Firm" and "Additional Information Regarding Our Independent Registered Public Accounting Firm" in our 2017 Definitive Proxy Statement.

PART IV

Item 15. Exhibits and Financial Statement Schedules

- a) Documents filed as part of this Report.
 - (1) The following consolidated financial statements are filed herewith in Item 8 of Part II above.
 - (i) Report of Independent Registered Public Accounting Firm
 - (ii) Consolidated Balance Sheets
 - (iii) Consolidated Statements of Operations
 - (iv) Consolidated Statements of Changes in Stockholders' Equity
 - (v) Consolidated Statements of Comprehensive Income
 - (vi) Consolidated Statements of Cash Flows
 - (vii) Notes to Consolidated Financial Statements
 - (2) Exhibits

		I	ncorporated By	Reference	
Exhibit Number	Exhibit Description	Form	Date	SEC File Number	Filed Herewith
1.1	Underwriting Agreement dated as of May 30, 2014, among the Registrant, Canaccord Genuity Inc. and Stifel, Nicolaus & Company, Incorporated.	8-K	5/30/14	001-33092	
2.1	Purchase Option Agreement dated December 30, 2008 by and among the Registrant, Neovasc Inc. and Neovasc Medical Inc.	10-K	3/27/13	001-33092	
2.2	Amendment No. 1 to Exclusive Distribution Agreement and Purchase Option Agreement dated January 22, 2009 by and among the Registrant, Neovasc Inc. and Neovasc Medical Inc.	10-K	3/27/13	001-33092	
2.3	Amendment No. 2 to Purchase Option Agreement dated January 5, 2012 by and among the Registrant, Neovasc Inc. and Neovasc Medical Inc.	10-K	3/27/13	001-33092	
2.4	Amendment No. 3 to Purchase Option Agreement dated October 1, 2012 by and among the Registrant, Neovasc Inc. and Neovasc Medical Inc.	10-K	3/27/13	001-33092	
2.5	Amendment No. 4 to Purchase Option Agreement dated October 1, 2012 by and among the Registrant, Neovasc Inc. and Neovasc Medical Inc.	10-Q	8/7/14	001-33092	
2.6	Asset Purchase Agreement dated August 28, 2013 between Registrant and InaVein, LLC	10-Q	11/7/13	001-33092	
2.7	Share Purchase Deed dated August 14, 2014 among Xenotis Pty Ltd, the shareholders of Xenotis Pty Ltd, Vinogopal Ramayah (as the Selling Shareholder Representative), the Registrant and LeMaitre Vascular Pty Ltd.	10-Q	11/6/14	001-33092	

			Incorporated By	Reference	
Exhibit Number	Exhibit Description	Form	Date	SEC File Number	Filed Herewith
2.8	Asset Purchase Agreement dated November 10, 2016 between Registrant, Restore Flow Allografts, LLC and certain individuals named therein.				X
3.1	Amended and Restated By-laws of the Registrant	S-1/A	5/26/06	333-133532	
3.2	Second Amended and Restated Certificate of Incorporation of the Registrant	10-K	3/29/10	001-33092	
3.3	Amendment to Second Amended and Restated Certificate of Incorporation of the Registrant	8-K	6/15/12	001-33092	
4.1	Specimen Certificate evidencing shares of common stock	S-1/A	6/22/06	333-133532	
10.1	Northwest Park Lease dated March 31, 2003, by and between the Registrant and Roger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, as amended	S-1	4/25/06	333-133532	
10.2	Registration Rights Agreement dated June 17, 1998, by and between the Registrant and Housatonic Equity Investors, L.P.	S-1/A	5/26/06	333-133532	
10.3	Director Compensation Policy	10-K	3/27/12	001-33092	
10.4†	Executive Retention and Severance Agreement dated October 10, 2005, by and between the Registrant and George W. LeMaitre	S-1/A	5/26/06	333-133532	
10.5†	Managing Director Employment Agreement dated October 1, 2008, by and between LeMaitre Vascular GmbH and Peter Gebauer, as amended	10-K	3/31/09	001-33092	
10.6†	Employment Agreement dated June 20, 2006, by and between the Registrant and David Roberts	S-1/A	6/22/06	333-133532	
10.7†	Employment Agreement dated April 20, 2006, by and between the Registrant and Joseph P. Pellegrino	S-1/A	6/22/06	333-133532	
10.8†	1997 Stock Option Plan and form of agreements thereunder	S-1	4/25/06	333-133532	
10.9†	1998 Stock Option Plan and form of agreements thereunder	S-1	4/25/06	333-133532	
10.10†	2000 Stock Option Plan and form of agreements thereunder	S-1	4/25/06	333-133532	
10.11†	2004 Stock Option Plan and form of agreements thereunder	S-1	4/25/06	333-133532	
10.12†	Second Amended and Restated 2006 Stock Option and Incentive Plan and form of agreements thereunder	8-K	6/18/10	001-33092	
10.13†	Form of Indemnification Agreement between the Registrant and its directors and executive officers	S-1/A	5/26/06	333-133532	

Exhibit Number Exhibit Description Form Date SEC File Number	
Option and Incentive Plan Second Amendment of Lease dated May 21, 2007, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant Third Amendment of Lease dated February 26, 2008, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant Fourth Amendment of Lease dated October 31, 2008, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant First Amendment to Executive Retention and Severance Agreement dated December 23, 2008, by and between the Registrant and George W. LeMaitre 10.19† First Amendment to Employment Agreement dated December 19, 2008, by and between the Registrant and David Roberts 10.20† First Amendment to Employment Agreement dated December 19, 2008, by and between the Registrant and Joseph P. Pellegrino 10.21 Fifth Amendment of Lease dated March 23, 2010, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant 10.22 Northwest Park Lease dated March 23, 2010, by and between Rodger P. Nordblom and	Filed Herewith
and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant 8-K 6/15/07 001-3309 10.16 Third Amendment of Lease dated February 26, 2008, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant 8-K 4/10/08 001-3309 10.17 Fourth Amendment of Lease dated October 31, 2008, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant 10-K 3/31/09 001-3309 10.18† First Amendment to Executive Retention and Severance Agreement dated December 23, 2008, by and between the Registrant and George W. LeMaitre 10-K 3/31/09 001-3309 10.19† First Amendment to Employment Agreement dated December 19, 2008, by and between the Registrant and David Roberts 10-K 3/31/09 001-3309 10.20† First Amendment to Employment Agreement dated December 19, 2008, by and between the Registrant and Joseph P. Pellegrino 10-K 3/31/09 001-3309 10.21 Fifth Amendment of Lease dated March 23, 2010, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant 10-K 3/29/10 001-3309 10.22 Northwest Park Lease dated March 23, 2010, by and between Rodger P. Nordblom and	
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and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant 10-K 3/29/10 001-3309 Northwest Park Lease dated March 23, 2010, by and between Rodger P. Nordblom and	
, , ,	
First Amendment to Northwest Park Lease dated September 14, 2010, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant 10-K 3/27/12 001-3309	
Second Amendment to Northwest Park Lease dated October 31, 2011, by and between NWP Building 4 LLC, as successor-in-interest to Trustees of Northwest Associates, and Registrant 10-K 3/27/12 001-3309	
Third Amendment of Northwest Park Lease dated August 31, 2012, by and between NWP Building 4 LLC, as successor-in-interest to Trustees of Northwest Associates, and Registrant 10-K 3/27/13 001-3309	
10.26 Lease dated December 20, 2013, by and between N.W. Building 3 Trust and Registrant 8-K 12/23/13 001-3309	
10.20 Lease dated December 20, 2013, by and between N. W. Burnding 5 Trust and Registration 6-K 12/25/15 001-5507	

			Incorporated By R	teferen ce	
Exhibit Number	Exhibit Description	Form	Date	SEC File Number	Filed Herewi
10.27	Fourth Amendment of Lease dated December 20, 2013, by and between NWP Building 4 LLC, as successor-in-interest to the Trustees of Northwest Associates, and Registrant	8-K	12/23/13	001-33092	
10.28	Sixth Amendment of Lease dated December 20, 2013, by and between NWP Building 5 LLC, as successor-in-interest to the Trustees of Northwest Associates, and Registrant	8-K	12/23/13	001-33092	
10.29†	Amended and Restated Management Incentive Compensation Plan	8-K	2/25/14	001-33092	
10.30†	Third Amended and Restated 2006 Stock Option and Incentive Plan	8-K	6/8/15	001-33092	
10.31†	Executive Retention and Severance Agreement dated October 26, 2015, by and between the Registrant and Michael T. Wijas.	10-K	3/10/16	001-33092	
21.1	List of Subsidiaries				
23.1	Consent of Grant Thornton LLP				
23.2	Consent of Ernst & Young LLP				
24.1	Power of Attorney (included on the Signatures page of this Annual Report on Form 10-K)				
31.1	Certification of Chief Executive Officer, as required by Rule 13a-14(a) or Rule 15d-14(a)				
31.2	Certification of Chief Financial Officer, as required by Rule 13a-14(a) or Rule 15d-14(a)				
32.1*	Certification of Chief Executive Officer, as required by Rule 13a-14(b) or Rule 15d-14(b) and Section 1350 of Chapter 36 of Title 18 of the United States Code (18 U.S.C. §1350)				
32.2*	Certification of Chief Financial Officer, as required by Rule 13a-14(b) or Rule 15d-14(b) and Section 1350 of Chapter 36 of Title 18 of the United States Code (18 U.S.C. §1350)				
101.INS	XBRL Instance Document.				
101.SCH	XBRL Taxonomy Extension Schema Document.				
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document.				
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document.				
101.LAB	XBRL Taxonomy Extension Delimition Elimbase Document. XBRL Taxonomy Extension Label Linkbase Document.				
IVI.LAD	ADICE Taxonomy Extension Easter Emikouse Document.				

			Incorporated Reference	Ву	
Exhibit Number	Exhibit Description	Form	Date	SEC File Number	Filed Herewith
101.PRE	XRBL Taxonomy Extension Presentation Linkbase Document.				X

† Indicates a management contract or any compensatory plan, contract, or arrangement.

Item 16. Form 10-K Summary.

Not applicable.

The certifications attached as Exhibit 32.1 and 32.2 that accompany this Annual Report on Form 10-K, are not deemed filed with the Securities and Exchange Commission and are not to be incorporated by reference into any filing of LeMaitre Vascular, Inc. under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, whether made before or after the date of this Form 10-K, irrespective of any general incorporation language contained in such filing.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized, on March 8, 2017.

LEMAITRE VASCULAR, INC.

By: /s/ GEORGE W. LEMAITRE

George W. LeMaitre,
Chief Executive Officer and Chairman of the Board

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints George W. LeMaitre and Joseph P. Pellegrino, Jr., and each of them, his true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for him and in his name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this report, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or either of them, or their or his substitutes or substitute, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

<u>Signatur</u> e	<u>Title</u>	<u>Date</u>
/s/ GEORGE W. LEMAITRE George W. LeMaitre	Chief Executive Officer and Chairman of the Board (Principal Executive Officer)	March 8, 2017
/s/ JOSEPH P. PELLEGRINO, JR. Joseph P. Pellegrino, Jr.	Chief Financial Officer (Principal Financial and Accounting Officer) and Director	March 8, 2017
/s/ LAWRENCE J. JASINSKI Lawrence J. Jasinski	Director	March 8, 2017
/s/ JOHN J. O'CONNOR John J. O'Connor	Director	March 8, 2017
/s/ DAVID B. ROBERTS David B. Roberts	President and Director	March 8, 2017
/s/ JOHN A. ROUSH John A. Roush	Director	March 8, 2017
/S/ MICHAEL H. THOMAS Michael H. Thomas	Director	March 8, 2017

INDEX TO FINANCIAL STATEMENTS

LeMaitre Vascular, Inc.	Page
Consolidated Financial Statements	
Report of Independent Registered Public Accounting – Grant Thornton LLP	F-2
Report of Independent Registered Public Accounting Firm – Ernst & Young LLP	F-3
Consolidated Balance Sheets as of December 31, 2016 and 2015	F-4
Consolidated Statements of Operations for the Years Ended December 31, 2016, 2015 and 2014	F-5
Consolidated Statements of Comprehensive Income for the Years Ended December 31, 2016, 2015 and 2014	F-6
Consolidated Statements of Stockholders' Equity for the Years Ended December 31, 2016, 2015 and 2014	F-7
Consolidated Statements of Cash Flows for the Years Ended December 31, 2016, 2015 and 2014	F-10
Notes to Consolidated Financial Statements	F-11

Report of Independent Registered Public Accounting Firm

Board of Directors and Shareholders **LeMaitre Vascular**, **Inc.**

We have audited the accompanying consolidated balance sheets of LeMaitre Vascular, Inc. (a Delaware corporation) and subsidiaries (the "Company") as of December 31, 2016 and 2015, and the related consolidated statements of operations, comprehensive income, changes in stockholders' equity, and cash flows for each of the two years in the period ended December 31, 2016. These consolidated 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. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of LeMaitre Vascular, Inc. and subsidiaries as of December 31, 2016 and 2015, and the results of their operations and their cash flows for each of the two years in period ended December 31, 2016 in conformity with accounting principles generally accepted in the United States of America.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the Company's internal control over financial reporting as of December 31, 2016, based on criteria established in the 2013 Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO), and our report dated March 8, 2017 expressed an unqualified opinion thereon.

/s/ GRANT THORNTON LLP Boston, Massachusetts March 8, 2017

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

The Board of Directors and Stockholders of LeMaitre Vascular, Inc.

We have audited the accompanying consolidated statements of operations, comprehensive income, stockholders' equity, and cash flows of LeMaitre Vascular, Inc. (the Company) for the year ended December 31, 2014. 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 audit.

We conducted our audit 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 audit 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 audit provides a reasonable basis for our opinion.

In our opinion, the financial statements of LeMaitre Vascular, Inc. referred to above present fairly, in all material respects, the consolidated results of its operations and its cash flows for the year ended December 31, 2014, in conformity with U.S. generally accepted accounting principles.

/s/ Ernst & Young LLP

Boston, Massachusetts March 18, 2015

LeMaitre Vascular, Inc. Consolidated Balance Sheets

Test the state of the		 unaudited) ecember 31, 2016	De	ecember 31, 2015
Surests Cash and cash equivalents \$ 24,288 \$ 27,451 Accounts receivable, net of allowances of \$258 at December 31, 2016, and \$243 at December 31, 2015 \$ 13,191 \$ 11,971 Inventory and other deferred costs 19,578 \$ 15,205 Prepaid expenses and other current assets \$ 99,027 \$ 58,184 Propaid expenses and other current assets \$ 99,027 \$ 58,184 Propaid expenses and other current assets \$ 99,027 \$ 58,818 Propaid expenses and other current assets \$ 99,027 \$ 58,818 Propaid equipment, net 8,012 7,022 Goodwill 23,426 17,789 Other intangibles, net 9,897 6,336 Other intangibles, net 9,897 6,336 Other saxets 1399 1,205 Other saxets 163 168 Total assets \$ 10,192 \$ 9,070 Liabilities \$ 12,17 \$ 1,366 Accounts payable \$ 1,217 \$ 1,366 Accurde expenses 8,804 8,837 Accurrent liabilities		 		
Current assets: \$ 24,288 \$ 27,51 Cash and cash equivalents \$ 24,288 \$ 27,51 Accounts receivable, net of allowances of \$258 at December 31, 2016, and \$243 at December 31, 2015 13,191 11,971 Inventory and other deferred costs 19,578 15,205 Prepaid expenses and other current assets 59,027 58,184 Property and equipment, net 8,012 7,022 Goodwill 23,426 17,789 Other intangibles, net 9,897 6,336 Deferred tax assets 1,399 1,205 Other assets 103 168 Total sasets \$ 10,32 168 Total sasets \$ 10,39 1,205 Other assets \$ 10,39 1,205 Other assets \$ 10,32 1,68 Total sasets \$ 10,32 1,68 Total sasets \$ 1,217 \$ 1,366 Account sayable \$ 1,217 \$ 1,366 Accound expenses \$ 8,804 8,837 Acquisition-related obligations 1,948 1,678	Assets	except s	nare data)	
Cash and cash equivalents \$ 24,288 \$ 27,51 Accounts receivable, net of allowances of \$258 at December 31,2016, and \$243 at December 31,2015 13,191 11,971 Inventory and other deferred costs 19,578 15,205 Prepaid expenses and other current assets 59,027 58,184 Property and equipment, net 8,012 7,022 Goodwill 23,426 17,789 Other intangibles, net 9,897 6,336 Deferred tax assets 1,399 1,205 Other assets 163 168 Total assets \$ 101,924 \$ 90,704 Libilities and stockholders' equity \$ 10,924 \$ 90,704 Libilities and stockholders' equity \$ 1,217 \$ 1,366 Accounts payable \$ 1,217 \$ 1,366 Accounts payable \$ 8,804 8,837 Acquisition-related obligations 461 165 Total current liabilities 1,941 1,678 Other long-term liabilities 1,941 1,678 Other long-term liabilities 2,001 77				
Accounts receivable, net of allowances of \$258 at December 31, 2016, and \$243 at December 31, 2016 13, 191 11, 971 11, 971 11, 971 11, 972 11, 975 12, 975 12, 975 13, 975 13, 975 13, 975 14, 975 15,		\$ 24.288	\$	27,451
Inventory and other deferred costs		,		, ,
Inventory and other deferred costs	31,2015	13,191		11,971
Total current assets 59,027 58,184 Property and equipment, net 8,012 7,022 Goodwill 23,426 17,789 Other intangibles, net 9,897 6,336 Deferred tax assets 1,399 1,205 Other assets 1,019,24 \$90,704 Total assets \$101,924 \$90,704 Liabilities and stockholders' equity Current liabilities \$1,217 \$1,366 Accounts payable \$1,217 \$1,366 Account expenses 8,804 8,837 Acquisition-related obligations 461 165 Total current liabilities 10,482 10,368 Other liabilities 1,941 1,678 Other long-term liabilities 2,001 774 Total liabilities 14,424 12,820 Stockholders' equity: Preferred stock, \$0,01 par value; authorized 3,000,000 shares; none outstanding — — — Common stock, \$0,01 par value; authorized 37,000,0	Inventory and other deferred costs	19,578		
Property and equipment, net 8,012 7,022 Goodwill 23,426 17,789 Other intangibles, net 9,897 6,336 Deferred tax assets 1,399 1,205 Other assets 163 168 Total assets 10,1924 \$9,704 Liabilities and stockholders' equity Urrent liabilities Accounts payable \$1,217 \$1,366 Accounts payable \$1,217 \$1,366 Account payable \$1,217 \$1,366 Deferred tax liabilities \$1,044 \$1,252 Other long-term liabilities \$1,042 \$1,252 December 31,2016, and 19,748,321 shares at Decemb	Prepaid expenses and other current assets	1,970		3,557
Godwill 23,426 17,89 Other intangibles, net 9,897 6,336 Deferred tax assets 1,399 1,205 Other assets 163 168 Total assets \$101,924 \$90,704 Liabilities and stockholders' equity Current liabilities: Accounts payable \$1,217 \$1,366 Accounts payable \$8,804 8,837 Acquisition-related obligations 461 165 Total current liabilities 10,482 10,368 Deferred tax liabilities 10,482 10,368 Deferred tax liabilities 1,941 1,678 Other long-term liabilities 1,941 1,678 Other long-term liabilities 2,001 774 Total liabilities 2,001 774 Other long-term liabilities 2,001 77 Other long-term liabilities 2,001 77 Total liabilities 2,001 77 Accommon stock, \$0.01 par value; authorized 3,000,000 shares; none outstanding — —	Total current assets	59,027		58,184
Other intangibles, net 9,897 6,336 Deferred tax assets 1,399 1,205 Other assets 163 168 Total assets \$10,1924 \$90,704 Liabilities and stockholders' equity Urrent liabilities: Accounts payable \$1,217 \$1,366 Accunde expenses 8,804 8,837 Acquisition-related obligations 461 165 Total current liabilities 10,482 10,368 Deferred tax liabilities 1,941 1,678 Other long-term liabilities 2,001 777 Total liabilities 14,424 12,820 Stockholders' equity: Preferred stock, \$0.01 par value; authorized 3,000,000 shares; issued 20,040,348 shares at December 31, 2016, and 19,748,321 shares at December 31,2015 200 197 Additional paid-in capital 85,378 82,094 Retained earnings 15,335 8,161 Accumulated other comprehensive loss (4,583) (4,949) Treasury stock, at cost; 1,452,810 shares at December 31,2016 and 1,431,139 shares at De	Property and equipment, net	8,012		7,022
Deferred tax assets 1,399 1,205 Other assets 163 168 Total assets \$ 101,924 \$ 90,704 Liabilities and stockholders' equity Current liabilities Accounts payable \$ 1,217 \$ 1,366 Accured expenses \$ 8,804 8,837 Acquisition-related obligations 461 165 Total current liabilities 10,482 10,368 Deferred tax liabilities 1,941 1,678 Other long-term liabilities 2,001 774 Ottal liabilities 1,424 12,820 Stockholders' equity: Perferred stock, \$0.01 par value; authorized 3,000,000 shares; none outstanding — — — Common stock, \$0.01 par value; authorized 37,000,000 shares; issued 20,040,348 shares at December 31, 2016, and 19,748,321 shares at December 31, 2015 200 197 Additional paid-in capital 85,378 82,094 Retained earning 4,583 4,649 Retained earnings 4,583 4,649 Accumulated other comprehensive loss <th< td=""><td>Goodwill</td><td>23,426</td><td></td><td>17,789</td></th<>	Goodwill	23,426		17,789
Other assets 163 168 Total assets \$ 101,924 \$ 90,704 Liabilities and stockholders' equity Current liabilities Accounts payable \$ 1,217 \$ 1,366 Accued expenses 8,804 8,837 Acquisition-related obligations 461 165 Deferred tax liabilities 1,941 1,678 Other long-term liabilities 1,941 1,678 Other long-term liabilities 2,001 774 Total liabilities 1,424 12,820 Stockholders' equity: Preferred stock, \$0.01 par value; authorized 3,000,000 shares; none outstanding — — Common stock, \$0.01 par value; authorized 37,000,000 shares; issued 20,040,348 shares at 200 197 Additional paid-in capital 85,378 82,094 Additional paid-in capital 85,378 82,094 Retained earnings 4,583 8,616 Accumulated other comprehensive loss (4,583) (4,583) (8,819) Treasury stock, at cost; 1,452,810 shares at December 31,2016 and 1,431,139 sha	Other intangibles, net	9,897		6,336
Total assets \$ 101,924 \$ 90,704 Liabilities and stockholders' equity Current liabilities: Accounts payable \$ 1,217 \$ 1,366 Accrucia expenses 8,804 8,837 Acquisition-related obligations 461 165 Total current liabilities 10,482 10,368 Deferred tax liabilities 1,941 1,678 Other long-term liabilities 2,001 774 Total liabilities 14,424 12,820 Stockholders' equity: Preferred stock, \$0.01 par value; authorized 3,000,000 shares; none outstanding — — — Common stock, \$0.01 par value; authorized 37,000,000 shares; issued 20,040,348 shares at 200 197 Additional paid-in capital 85,378 82,094 Retained earnings 15,335 8,161 Accumulated other comprehensive loss (4,583) (4,049) Treasury stock, at cost; 1,452,810 shares at December 31, 2016 and 1,431,139 shares at 88,370 (8,830) (8,519) Total stockholders' equity 87,500 77,884 <	Deferred tax assets	1,399		1,205
Liabilities and stockholders' equity Current liabilities: 31,217 \$1,366 Accounts payable \$1,217 \$1,366 Accrucie dexpenses 8,804 8,837 Acquisition-related obligations 461 165 Total current liabilities 10,482 10,368 Deferred tax liabilities 1,941 1,678 Other long-term liabilities 2,001 774 Total liabilities 14,424 12,820 Stockholders' equity:	Other assets	163		168
Current liabilities: Accounts payable \$ 1,217 \$ 1,366 Accrued expenses 8,804 8,837 Acquisition-related obligations 461 165 Total current liabilities 10,482 10,368 Deferred tax liabilities 1,941 1,678 Other long-term liabilities 2,001 774 Total liabilities 14,424 12,820 Stockholders' equity: Preferred stock, \$0.01 par value; authorized 3,000,000 shares; none outstanding — — — Common stock, \$0.01 par value; authorized 37,000,000 shares; issued 20,040,348 shares at 200 197 Additional paid-in capital 85,378 82,094 Additional paid-in capital 85,378 82,094 Accumulated other comprehensive loss (4,583) (4,049) Treasury stock, at cost; 1,452,810 shares at December 31, 2016 and 1,431,139 shares at (8,830) 8,519 Total stockholders' equity 87,500 77,884	Total assets	\$ 101,924	\$	90,704
Current liabilities: Accounts payable \$ 1,217 \$ 1,366 Accrued expenses 8,804 8,837 Acquisition-related obligations 461 165 Total current liabilities 10,482 10,368 Deferred tax liabilities 1,941 1,678 Other long-term liabilities 2,001 774 Total liabilities 14,424 12,820 Stockholders' equity: Preferred stock, \$0.01 par value; authorized 3,000,000 shares; none outstanding — — — Common stock, \$0.01 par value; authorized 37,000,000 shares; issued 20,040,348 shares at 200 197 Additional paid-in capital 85,378 82,094 Additional paid-in capital 85,378 82,094 Accumulated other comprehensive loss (4,583) (4,049) Treasury stock, at cost; 1,452,810 shares at December 31, 2016 and 1,431,139 shares at (8,830) 8,519 Total stockholders' equity 87,500 77,884	Liabilities and stockholders' equity			
Accured expenses 8,804 8,837 Acquisition-related obligations 461 165 Total current liabilities 10,482 10,368 Deferred tax liabilities 1,941 1,678 Other long-term liabilities 2,001 774 Total liabilities 14,424 12,820 Stockholders' equity: - - Preferred stock, \$0.01 par value; authorized 3,000,000 shares; none outstanding - - Common stock, \$0.01 par value; authorized 37,000,000 shares; issued 20,040,348 shares at 200 197 Additional paid-in capital 85,378 82,094 Retained earnings 15,335 8,161 Accumulated other comprehensive loss (4,583) (4,049) Treasury stock, at cost; 1,452,810 shares at December 31,2016 and 1,431,139 shares at (8,830) (8,519) Total stockholders' equity 87,500 77,884				
Accured expenses 8,804 8,837 Acquisition-related obligations 461 165 Total current liabilities 10,482 10,368 Deferred tax liabilities 1,941 1,678 Other long-term liabilities 2,001 774 Total liabilities 14,424 12,820 Stockholders' equity: - - Preferred stock, \$0.01 par value; authorized 3,000,000 shares; none outstanding - - Common stock, \$0.01 par value; authorized 37,000,000 shares; issued 20,040,348 shares at 200 197 Additional paid-in capital 85,378 82,094 Retained earnings 15,335 8,161 Accumulated other comprehensive loss (4,583) (4,049) Treasury stock, at cost; 1,452,810 shares at December 31,2016 and 1,431,139 shares at (8,830) (8,519) Total stockholders' equity 87,500 77,884	Accounts payable	\$ 1,217	\$	1,366
Total current liabilities 10,482 10,368 Deferred tax liabilities 1,941 1,678 Other long-term liabilities 2,001 774 Total liabilities 14,424 12,820 Stockholders' equity: Preferred stock, \$0.01 par value; authorized 37,000,000 shares; none outstanding — — Common stock, \$0.01 par value; authorized 37,000,000 shares; issued 20,040,348 shares at December 31, 2016, and 19,748,321 shares at December 31, 2015 200 197 Additional paid-in capital 85,378 82,094 Retained earnings 15,335 8,161 Accumulated other comprehensive loss (4,583) (4,049) Treasury stock, at cost; 1,452,810 shares at December 31, 2016 and 1,431,139 shares at December 31, 2015 (8,830) (8,519) Total stockholders' equity 87,500 77,884		8,804		8,837
Deferred tax liabilities 1,941 1,678 Other long-term liabilities 2,001 774 Total liabilities 14,424 12,820 Stockholders' equity:	Acquisition-related obligations	461		165
Other long-term liabilities 2,001 774 Total liabilities 14,424 12,820 Stockholders' equity:	Total current liabilities	 10,482		10,368
Total liabilities 14,424 12,820 Stockholders' equity: Preferred stock, \$0.01 par value; authorized 3,000,000 shares; none outstanding — — Common stock, \$0.01 par value; authorized 37,000,000 shares; issued 20,040,348 shares at December 31, 2016, and 19,748,321 shares at December 31, 2015 200 197 Additional paid-in capital 85,378 82,094 Retained earnings 15,335 8,161 Accumulated other comprehensive loss (4,583) (4,049) Treasury stock, at cost; 1,452,810 shares at December 31, 2016 and 1,431,139 shares at December 31, 2015 (8,830) (8,519) Total stockholders' equity 87,500 77,884	Deferred tax liabilities	1,941		1,678
Stockholders' equity: Preferred stock, \$0.01 par value; authorized 3,000,000 shares; none outstanding — — Common stock, \$0.01 par value; authorized 37,000,000 shares; issued 20,040,348 shares at — — December 31, 2016, and 19,748,321 shares at December 31, 2015 200 197 Additional paid-in capital 85,378 82,094 Retained earnings 15,335 8,161 Accumulated other comprehensive loss (4,583) (4,049) Treasury stock, at cost; 1,452,810 shares at December 31, 2016 and 1,431,139 shares at (8,830) (8,519) Total stockholders' equity 87,500 77,884	Other long-term liabilities	2,001		774
Preferred stock, \$0.01 par value; authorized 3,000,000 shares; none outstanding — — Common stock, \$0.01 par value; authorized 37,000,000 shares; issued 20,040,348 shares at — — December 31, 2016, and 19,748,321 shares at December 31, 2015 200 197 Additional paid-in capital 85,378 82,094 Retained earnings 15,335 8,161 Accumulated other comprehensive loss (4,583) (4,049) Treasury stock, at cost; 1,452,810 shares at December 31, 2016 and 1,431,139 shares at — (8,830) (8,519) Total stockholders' equity 87,500 77,884	Total liabilities	 14,424		12,820
Common stock, \$0.01 par value; authorized 37,000,000 shares; issued 20,040,348 shares at December 31, 2016, and 19,748,321 shares at December 31, 2015 200 197 Additional paid-in capital 85,378 82,094 Retained earnings 15,335 8,161 Accumulated other comprehensive loss (4,583) (4,049) Treasury stock, at cost; 1,452,810 shares at December 31, 2016 and 1,431,139 shares at December 31, 2015 (8,830) (8,519) Total stockholders' equity 87,500 77,884	Stockholders' equity:			
December 31, 2016, and 19,748,321 shares at December 31, 2015 200 197 Additional paid-in capital 85,378 82,094 Retained earnings 15,335 8,161 Accumulated other comprehensive loss (4,583) (4,049) Treasury stock, at cost; 1,452,810 shares at December 31, 2016 and 1,431,139 shares at December 31, 2015 (8,830) (8,519) Total stockholders' equity 87,500 77,884	Preferred stock, \$0.01 par value; authorized 3,000,000 shares; none outstanding	_		_
Additional paid-in capital 85,378 82,094 Retained earnings 15,335 8,161 Accumulated other comprehensive loss (4,583) (4,049) Treasury stock, at cost; 1,452,810 shares at December 31, 2016 and 1,431,139 shares at December 31, 2015 (8,830) (8,519) Total stockholders' equity 87,500 77,884	Common stock, \$0.01 par value; authorized 37,000,000 shares; issued 20,040,348 shares at			
Retained earnings 15,335 8,161 Accumulated other comprehensive loss (4,583) (4,049) Treasury stock, at cost; 1,452,810 shares at December 31, 2016 and 1,431,139 shares at December 31, 2015 (8,830) (8,519) Total stockholders' equity 87,500 77,884	December 31, 2016, and 19,748,321 shares at December 31, 2015	200		197
Accumulated other comprehensive loss (4,583) (4,049) Treasury stock, at cost; 1,452,810 shares at December 31, 2016 and 1,431,139 shares at December 31, 2015 (8,830) (8,519) Total stockholders' equity 87,500 77,884	Additional paid-in capital	85,378		82,094
Treasury stock, at cost; 1,452,810 shares at December 31, 2016 and 1,431,139 shares at December 31, 2015 (8,830) (8,519) Total stockholders' equity 87,500 77,884		15,335		8,161
December 31, 2015 (8,830) (8,519) Total stockholders' equity 87,500 77,884	Accumulated other comprehensive loss	(4,583)		(4,049)
Total stockholders' equity 87,500 77,884				
	December 31, 2015	 (8,830)		(8,519)
Total liabilities and stockholders' equity \$\\ \\$ \\ 101,924 \\ \\$ \\ 90,704	Total stockholders' equity	 87,500		77,884
	Total liabilities and stockholders' equity	\$ 101,924	\$	90,704

LeMaitre Vascular, Inc. Consolidated Statements of Operations

		Year ended December 31,				
		2016	2014			
			(in thousands, except per share data)			
Net sales	\$	89,151	\$ 78,352	\$ 71,097		
Cost of sales		26,215	24,186	22,666		
Gross profit		62,936	54,166	48,431		
Sales and marketing		26,105	22,780	22,087		
General and administrative		14,354	14,010	13,889		
Research and development		6,141	5,479	4,671		
Medical device excise tax		_	744	689		
Restructuring charges		_	_	526		
Gain on divestitures		_	(360)	_		
Impairment charges				229		
Total operating expenses		46,600	42,653	42,091		
Income from operations		16,336	11,513	6,340		
Other income (expense):						
Interest income		81	13	1		
Interest expense		(14)	_	(5)		
Foreign currency loss		(161)	(102)	(16)		
Income before income taxes		16,242	11,424	6,320		
Provision for income taxes		5,652	3,666	2,405		
Net income	\$	10,590	\$ 7,758	\$ 3,915		
Earnings per share of common stock:						
Basic	<u>\$</u>	0.57	\$ 0.44	\$ 0.24		
Diluted	\$	0.55	\$ 0.42	\$ 0.23		
Weighted-average shares outstanding:						
Basic	<u> </u>	18,485	17,764	16,614		
Diluted		19,241	18,316	17,008		
Cash dividends declared per common share	\$	0.18	\$ 0.16	\$ 0.14		

LeMaitre Vascular, Inc. Consolidated Statements of Comprehensive Income

	Year ended December 31,			
	2016	2015	2014	
		(in thousands)		
Net income	\$10,590	\$ 7,758	\$ 3,915	
Other comprehensive income (loss):				
Foreign currency translation adjustment, net	(534)	(1,684)	(2,112)	
Total other comprehensive income (loss)	(534)	(1,684)	(2,112)	
Comprehensive income	\$10,056	\$ 6,074	\$ 1,803	

LeMaitre Vascular, Inc. Consolidated Statements of Stockholders' Equity (in thousands, except share data)

	Common S	tock	Additional Paid-in	Retained	(imulated Other orehensive	Treasury	Stock	Sto	Total
	Shares	Amount	Capital	Earnings	Loss		Shares	Amount		Equity
Balance at December 31, 2013	16,959,330	\$ 170	\$65,354	\$ (667)	\$	(253)	1,380,119	\$(8,042)	\$	56,562
Net income				3,915						3,915
Other comprehensive income						(2,112)				(2,112)
Issuance of common stock	1,644,500	16	10,474							10,490
Issuance of common stock for stock options exercised	103,064	1	342							343
Vested restricted stock units	71,542	1								1
Excess tax benefits from stock-based compensation										
awards			225							225
Stock based compensation expense			1,302							1,302
Repurchase of common stock at cost							27,092	(211)		(211)
Common stock cash dividend paid	-		(2,308)						_	(2,308)
Balance at December 31, 2014	18,778,436	\$ 188	\$75,389	\$3,248	\$	(2,365)	1,407,211	\$(8,253)	\$	68,207

LeMaitre Vascular, Inc.

Consolidated Statements of Stockholders' Equity—(continued) (in thousands, except share data)

	Common S	41-	Additional			nulated ther	T	C41-		Total
		тоск	Paid-in	Retained		rehensive	Treasury	Stock		kholders'
	Shares	Amount	Capital	Earnings	Incom	e (Loss)	Shares	Amount	1	Equity
Balance at December 31, 2014	18,778,436	\$ 188	\$75,389	\$ 3,248	\$	(2,365)	1,407,211	\$(8,253)	\$	68,207
Net income				7,758						7,758
Other comprehensive income						(1,684)				(1,684)
Issuance of common stock for stock options exercised	906,936	9	4,827							4,836
Vested restricted stock units	62,949									0
Excess tax benefits from stock-based compensation										
awards			454							454
Stock based compensation expense			1,424							1,424
Repurchase of common stock at cost							23,928	(266)		(266)
Common stock cash dividend paid				(2,845)						(2,845)
Balance at December 31, 2015	19,748,321	\$ 197	\$82,094	\$ 8,161	\$	(4,049)	1,431,139	\$(8,519)	\$	77,884

F-8

LeMaitre Vascular, Inc.

Consolidated Statements of Stockholders' Equity—(continued) (in thousands, except share data)

	Common S	took	Additional		Accumulat Other	ed . Treasur	v Stook	Total
	Shares	Amount	Paid-in Capital	Retained Earnings	Comprehens Income (Lo	sive —	Amount	Stockholders' Equity
Balance at December 31, 2015	19,748,321	\$ 197	\$82,094	\$ 8,161	\$ (4,0		\$(8,519)	\$ 77,884
Net income			·	10,590	` `	,		10,590
Other comprehensive income					(5	34)		(534)
Cummaltive effect adjustment to retained earnings			165	(93)				72
Issuance of common stock for stock options exercised	233,798	3	1,439					1,442
Vested restricted stock units	58,229							_
Stock based compensation expense			1,680					1,680
Repurchase of common stock at cost						21,671	(311)	(311)
Common stock cash dividend paid				(3,323)				(3,323)
Balance at December 31, 2016	20,040,348	\$ 200	\$85,378	\$15,335	\$ (4,5	83) 1,452,810	\$(8,830)	\$ 87,500

F-9

LeMaitre Vascular, Inc. Consolidated Statements of Cash Flows

	Year	Year ended December 31,		
	2016	2015	2014	
		(in thousands)		
Operating activities				
Net income	\$ 10,590	\$ 7,758	\$ 3,915	
Adjustments to reconcile net income to net cash provided by operating activities:				
Depreciation and amortization	3,591	3,394	3,334	
Stock-based compensation	1,680	1,424	1,302	
Fair value adjustments to contingent consideration obligations		_	138	
Impairment charges	_		229	
Provision (recovery) of doubtful accounts	105	182	54	
Provision for inventory write-downs	362	462	667	
Provision (benefit) for deferred income taxes	140	(384)	(72)	
Gain on divestitures	<u> </u>	(360)	_	
Excess tax benefits from stock-based compensation awards		(454)	(225)	
Loss on disposal of property and equipment	_	5	8	
Foreign currency transaction gain	59	100	60	
Changes in operating assets and liabilities:				
Accounts receivable	(922)	(1,879)	(654)	
Inventory and other deferred costs	(134)	608	(2,711)	
Prepaid expenses and other assets	1,528	(2,035)	553	
Accounts payable and other liabilities	(103)	2,617	(1,086)	
Net cash provided by operating activities	16,896	11,438	5,512	
Investing activities				
Purchases of property and equipment	(2,841)	(2,273)	(1,174)	
Payments related to acquisitions, net of cash acquired	(14,368)	(1,565)	(6,559)	
Proceeds from divestitures, net of expenses	_	360	_	
Proceeds from sale of property and equipment	_	15	_	
Purchase of intellectual property	(2)	(17)	(15)	
Net cash used in investing activities	(17,211)	(3,480)	(7,748)	
Financing activities	, , ,			
Payments of long-term debt	_	_	(1,133)	
Payment of deferred acquisition consideration	(385)	(1,100)	(745)	
Proceeds from issuance of common stock	1,442	4,836	10,834	
Purchase of treasury stock	(311)	(266)	(211)	
Common stock cash dividend paid	(3,323)	(2,845)	(2,308)	
Excess tax benefits from stock-based compensation awards	·_ ′	454	225	
Net cash provided by (used in) financing activities	(2,577)	1,079	6,662	
Effect of exchange rate changes on cash and cash equivalents	(271)	(278)	(445)	
Net increase (decrease) in cash and cash equivalents	$\frac{(271)}{(3,163)}$	8,759	3,981	
Cash and cash equivalents at beginning of year	27,451		14,711	
		18,692		
Cash and cash equivalents at end of year	\$ 24,288	\$27,451	\$18,692	

Supplemental disclosures of cash flow information (see Note 13).

LeMaitre Vascular, Inc.

Notes to Consolidated Financial Statements December 31, 2016

1. Significant Accounting Policies and Related Matters

Description of Business

Unless the context requires otherwise, references to LeMaitre Vascular, we, our, and us refer to LeMaitre Vascular, Inc. and our subsidiaries. We develop, manufacture, and market medical devices and implants used primarily in the field of vascular surgery. We also derive revenues from the processing and cryopreservation of human tissues for implantation in patients. We operate in a single segment in which our principal product lines include the following: valvulotomes, balloon catheters, carotid shunts, biologic vascular patches, biologic vascular grafts, radiopaque marking tape, anastomotic clips, remote endarterectomy devices, laparoscopic cholecystectomy devices, vascular grafts, angioscopes, and powered phlebectomy devices. Our offices are located in Burlington, Massachusetts; Fox River Grove, Illinois; Mississauga, Canada; Sulzbach, Germany; Milan, Italy; Madrid, Spain; North Melbourne, Australia; Tokyo, Japan; and Shanghai, China.

Consolidation and Basis of Presentation

Our consolidated financial statements include the accounts of LeMaitre Vascular and the accounts of our wholly-owned subsidiaries, LeMaitre Vascular GmbH, LeMaitre Vascular GK, Vascutech Acquisition LLC, LeMaitre Acquisition LLC, LeMaitre Vascular SAS, LeMaitre Vascular S.r.l., LeMaitre Vascular Spain SL, LeMaitre Vascular Switzerland GmbH, LeMaitre Vascular ULC, LeMaitre Vascular AS, LeMaitre Vascular Pty Ltd, Xenotis Pty Ltd, LeMaitre Vascular, Ltd. and LeMaitre Medical Technology (Shanghai) Co. Ltd. All significant intercompany accounts and transactions have been eliminated in consolidation.

Foreign Currency Translation

Balance sheet accounts of foreign subsidiaries are translated into U.S. dollars at year-end exchange rates. Operating accounts are translated at average exchange rates for each year. Net translation gains or losses are adjusted directly to a separate component of other comprehensive income (loss) within stockholders' equity. Foreign exchange transaction gains (losses), substantially all of which relate to intercompany activity between us and our foreign subsidiaries, are included in other income (expense) in the accompanying consolidated statements of operations.

Estimates

The preparation of financial statements in conformity with U.S. generally accepted accounting principles (GAAP) requires us to make estimates and assumptions that affect the amounts reported in our consolidated financial statements and accompanying notes. Our estimates and assumptions, including those related to bad debts, inventory and other deferred costs, intangible assets, sales returns and discounts, and income taxes are reviewed on an ongoing basis and updated as appropriate. Actual results could differ from those estimates.

Revenue Recognition

Our revenue is derived primarily from the sale of disposable or implantable devices used during vascular surgery. We sell primarily directly to hospitals and to a lesser extent to distributors, as described below, and, during the periods presented in our consolidated financial statements, entered into consigned inventory arrangements with either hospitals or distributors on a limited basis. With the recent acquisition of the RestoreFlow allograft business, we also derive revenues from the processing and cryopreservation of human tissues for implantation in patients. These revenues are recognized when services have been provided and the tissue has been shipped to the customer, provided all other revenue recognition criteria discussed in the succeeding paragraph have been met.

We recognize revenue when four basic criteria are met: (1) persuasive evidence of an arrangement exists; (2) delivery has occurred or services have been rendered; (3) the fee is fixed or determinable; and (4) collectability is reasonably assured. We assess whether the fee is fixed or determinable based on the terms of the agreement associated with the transaction. Sales transactions are based on prices that are determinable at the time the customer's purchase order is accepted by us. Orders that are not accompanied with a purchase order are either confirmed in writing or verbally with the customer.

After the delivery of the product, there is no uncertainty about customer acceptance due to the nature of the product. There is no contingency for acceptance, warranty, or price protection. We do not recognize revenue on consigned sales until the customer notifies us that the products have been used. In order to determine whether collection is reasonably assured, we assess a number of factors, including past transaction history with the customer and the creditworthiness of the customer. If we determine that collection is not reasonably assured, we defer the recognition of revenue until collection becomes reasonably assured, which is generally upon receipt of payment. We provide for product returns at the time revenue is recognized based on our product return history.

Based on these policies, we recognize revenue, net of allowances for returns and discounts, as well as any sales and value added taxes required to be invoiced as products are shipped, based on shipping point terms, or at the time consigned inventory is consumed at which time title passes to customers. We recognize revenue net of allowances for returns and discounts, at the time of shipment of our products to our distributors. Customers returning products are entitled to full or partial credit based on the condition and timing of the return. To be accepted, a returned product must be unopened (if sterile), unadulterated, and undamaged, must have at least 18 months remaining prior to its expiration date, or twelve months for our hospital customers in Europe, and generally be returned within 30 days of shipment. These return policies apply to sales to both hospitals and distributors. The amount of products returned to us, either for exchange or credit, has not been material. Nevertheless, we provide for an allowance for future sales returns based on historical return experience. Our cost of replacing defective products has not been material and is accounted for at the time of replacement.

Research and Development Expense

Research and development costs, principally salaries, laboratory testing, and supplies, are expensed as incurred and also include royalty payments associated with licensed and acquired intellectual property.

Shipping and Handling Costs

Shipping and handling fees paid by customers are recorded within net sales, with the related expense recorded in cost of sales.

Advertising Costs

Advertising costs are expensed as incurred and are included as a component of sales and marketing expense in the accompanying consolidated statements of operations. Advertising costs are as follows:

	Yes	Year ended December 31,		
	2016	2015	2014	
	·	(in thousands)		
Advertising expense	\$378	\$428	\$462	

Cash and Cash Equivalents

We consider all highly liquid instruments purchased with maturity dates of 90 days or less to be cash equivalents. Cash and cash equivalents are primarily invested in money market funds. These amounts are stated at cost, which approximates fair value.

Concentrations of Credit Risk

Our financial instruments that are exposed to concentrations of credit risk consist primarily of cash and cash equivalents and accounts receivable. Cash equivalents represent highly liquid investments with maturities of 90 days or less at the date of purchase. Credit risk related to cash and cash equivalents are limited based on the creditworthiness of the financial institutions at which these funds are held. We maintain cash balances in several banks. Accounts located in the United States are insured by the Federal Deposit Insurance Corporation (FDIC) up to \$250,000. Certain of our account balances exceed the FDIC limit. Cash balances held outside the United States totaled approximately \$7.1 million as of December 31, 2016.

Our accounts receivable are with customers based in the United States and internationally. Accounts receivable generally are due within 30 to 90 days of invoice and are stated at amounts due from customers, net of an allowance for doubtful accounts and sales returns, other than in certain European markets where longer payment terms are customary and may range from 90 to 240 days. We perform ongoing credit evaluations of the financial condition of our customers and adjust credit limits based upon payment history and the current creditworthiness of the customers, as determined by a review of their current credit information. We continuously monitor aging reports, collections, and payments from customers, and maintain a provision for estimated credit losses based upon historical experience and any specific customer collection issues we identify.

We closely monitor outstanding receivables for potential collection risks, including those that may arise from economic conditions, in both the U.S. and international economies. Our European sales to government-owned or supported customers such as hospitals, distributors and agents, in Southern Europe, specifically Italy and Spain may be subject to significant payment delays due to government austerity measures impacting funding and payment practices. As of December 31, 2016 our receivables in Italy and Spain totaled \$0.8 million and \$0.4 million, respectively. Receivables balances with certain publicly-owned hospitals and government supported customers in these countries can accumulate over a period of time and then subsequently be settled as large lump sum payments. While we believe our allowance for doubtful accounts in these countries is adequate as of December 31, 2016, if significant changes were to occur in the payment practices of these European governments or if government funding becomes unavailable, we may not be able to collect on receivables due to us from these customers and our write offs of uncollectible amounts may increase.

We write off accounts receivable when they become uncollectible. Such credit losses have historically been within our expectations and allowances. The allowance for doubtful accounts is our best estimate of the amount of probable credit losses in our existing accounts receivable. We review our allowance for doubtful accounts on a monthly basis and all past due balances are reviewed individually for collectability. The provision for the allowance for doubtful accounts is recorded in general and administrative expenses. The following is a summary of our allowance for doubtful accounts and sales returns:

	Balance at	(recoveries)	Deductions	Balance at
	Beginning of Period	charged to Income	from Reserves	End of Period
		(in tho	usands)	
Allowance for doubtful accounts and sales returns:				
Year ended December 31, 2016	\$ 243	\$ 105	\$ 90	258
Year ended December 31, 2015	242	182	181	243
Year ended December 31, 2014	263	54	75	242

Fair Value of Financial Instruments

Our financial instruments include cash and cash equivalents, accounts receivable and trade payables. The fair value of the majority of these instruments approximates their carrying value based upon their short-term nature or variable rates of interest.

Inventory and Other Deferred Costs

Inventory and Other Deferred Costs consists of finished products, work-in-process, raw materials and costs deferred in connection with human tissue cryopreservation services of our RestoreFlow allograft business. We value inventory and other deferred costs at the lower of cost or market value. Cost includes materials, labor and manufacturing overhead and is determined using the first-in, first-out (FIFO) method. On a quarterly basis, we review inventory quantities on hand and analyze the provision for excess and obsolete inventory based primarily on product expiration dating and our estimated sales forecast, which is based on sales history and anticipated future demand. Our estimates of future product demand may not be accurate, and we may understate or overstate the provision required for excess and obsolete inventory. Accordingly, any significant unanticipated changes in demand could have a significant impact on the value of our inventory and results of operations.

Property and Equipment

Property and equipment are recorded at cost. Depreciation is provided over the estimated useful lives of the related assets using straight-line method as follows:

Description	Useful Life
Computers and equipment	3–5 years
Machinery and equipment	3–10 years
Leasehold improvements	The shorter of its useful life or lease term

Expenditures for maintenance and repairs are charged to operations when incurred, while additions and betterments are capitalized. When assets are retired or disposed, the asset's original cost and related accumulated depreciation are eliminated from the accounts and any gain or loss is reflected in the statement of operations.

Valuation of Business Combinations

We assign the value of the consideration transferred to acquire a business to the tangible assets and identifiable intangible assets acquired and liabilities assumed on the basis of their fair values at the date of acquisition. We assess the fair value of assets, including intangible assets, using a variety of methods and are usually performed by an independent appraiser who measures fair value from the perspective of a market participant.

Acquisitions have been accounted for using the acquisition method, and the acquired companies' results have been included in the accompanying consolidated financial statements from their respective dates of acquisition. Acquisition transaction costs have been recorded in general and administrative expenses, and are expensed as incurred. Allocation of the purchase price for acquisitions is based on estimates of the fair value of the net assets acquired and, for acquisitions completed within the past year, is subject to adjustment upon finalization of the purchase price allocation.

Our acquisitions have historically been made at prices above the fair value of the acquired assets, resulting in goodwill, due to expectations of synergies of combining the businesses. These synergies include use of our existing commercial infrastructure to expand sales of the acquired businesses' products, use of the commercial infrastructure of the acquired businesses to cost-effectively expand sales of our products, and the elimination of redundant facilities, functions and staffing.

Contingent Consideration

Contingent consideration for acquisitions is recognized at the date of acquisition, based on the fair value at that date, and then re-measured periodically through adjustments to net income.

Impairment of Long-lived Assets

We review our long-lived assets (primarily property and equipment and intangible assets) subject to amortization quarterly to determine if any adverse conditions exist or a change in circumstances has occurred that would indicate impairment or a change in the remaining useful life. Conditions that may indicate impairment include, but are not limited to, a significant adverse change in legal factors or business climate that could affect the value of an asset, a product recall, or an adverse action or assessment by a regulator. If an impairment indicator exists, we test the intangible asset for recoverability. We record impairment losses on long-lived assets used in operations when events and circumstances indicate that the assets might be impaired and the undiscounted cash flows estimated to be generated by those assets are less than the carrying amount of those assets. Impairment is measured based on the fair market value of the affected asset using discounted cash flows.

In 2014, we recognized an impairment charge of \$0.2 million related to trademarks, technology, and manufacturing equipment upon the termination of The UnBalloon, our non-occlusive modeling catheter product line.

This impairment adjustment falls within Level 3 of the fair value hierarchy, due to the use of significant unobservable inputs to determine fair value. The fair value measurements were calculated using unobservable inputs, primarily using the income approach, specifically the discounted cash flow method. As the product line was terminated, we concluded there would be no additional future cash flows.

Goodwill

Goodwill represents the amount of consideration paid in connection with business acquisitions in excess of the fair value of assets acquired and liabilities assumed. Goodwill is evaluated for impairment annually or more frequently if indicators of impairment are present or changes in circumstances suggest that an impairment may exist. We evaluate the December 31 balance of the carrying value of goodwill based on a single reporting unit annually. We perform an assessment of qualitative factors to determine if it is "more likely than not" that the fair value of our reporting unit is less than its carrying value as a basis for determining whether it is necessary to perform the two-step goodwill impairment test. The "more likely than not" threshold is defined as having a likelihood of more than 50 percent. If required, the next step of the goodwill impairment test is to determine the fair value of the reporting unit. The implied fair value of goodwill is determined on the same basis as the amount of goodwill recognized in connection with a business combination. Specifically, the fair value of a reporting unit is allocated to all of the assets and liabilities (including any unrecognized intangible assets) as if the reporting unit had been acquired in a business combination as of the date of the impairment review and as if the fair value of the reporting unit was the price paid to acquire the reporting unit. The excess of the fair value of a reporting unit over the amounts assigned to its assets and liabilities is the implied fair value of goodwill. If the carrying amount of the reporting unit goodwill exceeds the implied fair value of that goodwill, an impairment loss shall be recognized in a amount equal to that excess. We have determined that no goodwill impairment charges were required for the years ended December 31, 2016, 2015 or 2014.

Other Intangible Assets

Other intangible assets consist primarily of patents, trademarks, technology licenses, and customer relationships acquired in connection with business acquisitions and asset acquisitions and are amortized over their estimated useful lives, ranging from 1 to 13 years.

Stock-based Compensation

We recognize, as expense, the estimated fair value of stock options to employees which is determined using the Black-Scholes option pricing model. We have elected to recognize the compensation cost of all share-based awards on a straight-line basis over the vesting period of the award. In periods that we grant stock options, fair value assumptions are based on volatility, interest, dividend yield, and expected term over which the stock options will be outstanding. The computation of expected volatility is based on the historical volatility of the

company's stock. The interest rate for periods within the contractual life of the award is based on the U.S. Treasury risk-free interest rate in effect at the time of grant. Historical data on exercise patterns is the basis for estimating the expected life of an option. The expected annual dividend rate was calculated by dividing our annual dividend, based on the most recent quarterly dividend rate, by the closing stock price on the grant date.

We also issue restricted stock units (RSUs) as an additional form of equity compensation to our employees, officers, and directors, pursuant to our stockholder-approved 2006 Plan. RSUs entitle the grantee to an issuance of stock at no cost and generally vest over a period of time determined by our Board of Directors at the time of grant based upon the continued service to the company. The fair market value of the award is determined based on the number of RSUs granted and the market value of our common stock on the grant date and is amortized to expense over the period of vesting. Unvested RSUs are forfeited and canceled as of the date that employment or service to the company terminates. RSUs are settled in shares of our common stock upon vesting. We may repurchase common stock upon our employees' vesting in RSUs in order to cover any minimum tax withholding liability as a result of the RSUs having vested.

Share-based compensation charges had in prior years been recorded net of the estimated forfeitures based upon historical forfeiture rates, and was adjusted in subsequent periods to reflect the results of actual forfeitures and vesting. In March 2016, the Financial Accounting Standards Board ("FASB") issued a new standard that changes the accounting for certain aspects of share-based payments to employees, including a provision allowing companies to make an election to account for award forfeitures as they occur, rather than estimating them at the time of grant. We early-adopted the new guidance in the third quarter of fiscal year 2016, which required us to reflect any adjustments as of January 1, 2016, the beginning of the annual period that includes the interim period of adoption. In connection with this early adoption we made the election to account for award forfeitures as they occur, and we recorded a cumulative-effect adjustment to beginning retained earnings of \$0.1 million, net of tax. Share-based compensation charges are recorded across the consolidated statement of operations based upon the grantee's primary function.

Commitments and Contingencies

In the normal course of business, we are subject to proceedings, lawsuits, and other claims and assessments for matters related to, among other things, patent infringement, business acquisitions, employment, and product recalls. We assess the likelihood of any adverse judgments or outcomes to these matters as well as potential ranges of probable losses. A determination of the amount of reserves required, if any, for these contingencies is made after careful analysis of each individual issue. The required reserves may change in the future due to new developments in each matter or changes in approach such as a change in settlement strategy in dealing with these matters. We record charges for the losses we anticipate incurring in connection with litigation and claims against us when we conclude a loss is probable and we can reasonably estimate these losses. During the years ended December 31, 2016, 2015 and 2014, we were not subject to any material litigation or claims and assessments.

Income Taxes

We account for income taxes under the asset and liability method of accounting for income taxes. Under the asset and liability method, deferred taxes are determined based on the difference between the financial reporting and tax bases of assets and liabilities using enacted tax rates in effect in the years in which the differences are expected to reverse. The provision for income taxes includes taxes currently payable and deferred taxes resulting from the tax effects of temporary differences between the financial statement and tax bases of assets and liabilities. We maintain valuation allowances where it is more likely than not that all or a portion of a deferred tax asset will not be realized. Changes in the valuation allowances are included in our tax provision in the period of change. In determining whether a valuation allowance is warranted, we evaluate factors such as prior earnings history, expected future earnings, carry-back and carry-forward periods and tax strategies that could potentially enhance the likelihood of the realization of a deferred tax asset.

We recognize, measure, present and disclose in our financial statements, uncertain tax positions that we have taken or expect to take on a tax return. We recognize in our financial statements the impact of tax positions that meet a "more likely than not" threshold, based on the technical merits of the position. The tax benefits recognized in the financial statements from such a position are measured based on the largest benefit that has a greater than fifty percent likelihood of being realized upon ultimate settlement.

Our policy is to classify interest and penalties related to unrecognized tax benefits as income tax expense.

In 2015, the FASB issued ASU 2015-17, "Balance Sheet Classification of Deferred Taxes", which simplified the presentation of deferred income taxes. This ASU required that deferred tax assets and liabilities be classified as non-current in a statement of financial position. We early adopted ASU 2015-17 effective in 2015 on a prospective basis. Adoption of this ASU resulted in a reclassification of our net current deferred tax asset to the net non-current deferred tax asset in our Consolidated Balance Sheet as of December 31, 2015.

A provision has not been made for U.S. or additional non-U.S. taxes on \$1.2 million of undistributed earnings of international subsidiaries that could be subject to taxation if remitted to the U.S. because we plan to keep these amounts permanently reinvested overseas. To the extent such foreign earnings were remitted in the future a deferred tax liability of \$0.4 million would be recorded.

Comprehensive Income

Comprehensive income is defined as the change in equity of a business enterprise during a period from transactions and other events and circumstances from non-owner sources. Other than reported net income, comprehensive income includes foreign currency translation adjustments, which are disclosed in the accompanying consolidated statements of comprehensive income. There were no reclassifications out of comprehensive income for the years ended December 31, 2016 and 2015.

Accumulated other comprehensive loss consisted of foreign currency translation adjustment losses of \$4.6 million and \$4.0 million as of December 31, 2016 and 2015, respectively.

Restructuring

We record restructuring charges incurred in connection with consolidation or relocation of operations, exited business lines, reductions in force, or distributor terminations. These restructuring charges, which reflect our commitment to a termination or exit plan that will begin within twelve months, are based on estimates of the expected costs associated with site closure, legal matters, contract terminations, severance payments, or other costs directly related to the restructuring. If the actual cost incurred exceeds the estimated cost, an additional charge to earnings will result. If the actual cost is less than the estimated cost, a credit to earnings will be recognized.

Earnings per Share

We compute basic earnings per share by dividing net income available for common stockholders by the weighted average number of shares outstanding during the year. Except where the result would be anti-dilutive to net income per share, diluted earnings per share has been computed using the treasury stock method and reflects the potential vesting of restricted common stock and the potential exercise of stock options, as well as their related income tax effects.

The computation of basic and diluted net income per share is as follows:

	Year ended December 31,		
	2016	2015	2014
	(in thous	ands, except per s	share data)
Basic:			
Net income available for common stockholders	\$10,590	\$ 7,758	\$ 3,915
Weighted average shares outstanding	18,485	17,764	16,614
Basic earnings per share	\$ 0.57	\$ 0.44	\$ 0.24
Diluted:			
Net income available for common stockholders	\$10,590	\$ 7,758	\$ 3,915
Weighted-average shares outstanding	18,485	17,764	16,614
Common stock equivalents, if dilutive	756	552	394
Shares used in computing diluted earnings per common share	19,241	18,316	17,008
Diluted earnings per share	\$ 0.55	\$ 0.42	\$ 0.23
Shares excluded in computing diluted earnings per share as those shares would be anti-dilutive	45	55	277

Recent Accounting Pronouncements

In January 2017, the Financial Accounting Standards Board ("FASB") issued an accounting standards update, ASU 2017-01, which changes the definition of a business for purposes of determining whether a business has been acquired or sold. The amendment is intended to help companies evaluate whether transactions should be accounted for as acquisitions (or disposals) of assets or businesses. The new standard is effective for us beginning January 1, 2018, with early adoption permitted. The adoption of this standard is not expected to have a material impact on our financial statements.

In August 2016, the FASB issued an accounting standards update, ASU 2016-15, which changes the classification of certain cash receipts and cash payments within the statement of cash flows. The new standard is effective for us beginning January 1, 2018, with early adoption permitted. The adoption of this standard is not expected to have a material impact on our financial statements.

In February 2016, the FASB issued its new lease accounting guidance in Accounting Standards Update (ASU) No. 2016-02, Leases (Topic 842). Under the new guidance, lessees will be required to recognize the following for all leases (with the exception of short-term leases) at the commencement date: a lease liability, which is a lessee's obligation to make lease payments arising from a lease, measured on a discounted basis; and a right-of-use asset, which is an asset that represents the lessee's right to use, or control the use of, a specified asset for the lease term. The new lease guidance simplifies the accounting for sale and leaseback transactions primarily because lessees must recognize lease assets and lease liabilities. Lessees will no longer be provided with a source of off-balance sheet financing. The standard is effective for public companies for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years (i.e., January 1, 2019, for a calendar year entity). Early application is permitted. Lessees (for capital and operating leases) and lessors (for sales-type, direct financing, and operating leases) must apply a modified retrospective transition approach for leases existing at, or entered into after, the beginning of the earliest comparative period presented in the financial statements. The modified retrospective approach would not require any transition accounting for leases that expired before the earliest comparative period presented. Lessees and lessors may not apply a full retrospective transition approach. We have not yet determined the impact on our consolidated financial statements.

In July 2015, the FASB issued ASU No. 2015-11, Inventory (Topic 330): Simplifying the Measurement of Inventory, or ASU 2015-11. ASU 2015-11 requires an entity to measure in-scope inventory at the lower of cost

and net realizable value. ASU 2015-11 is effective for fiscal years beginning after December 15, 2016, and for interim periods within those fiscal years. A reporting entity should apply ASU 2015-11 prospectively with earlier application permitted as of the beginning of an interim or annual reporting period. We do not expect the adoption of this ASU to have a material impact on our consolidated financial statements.

In May 2014, the FASB and the International Accounting Standards Board (the "IASB") issued substantially converged final standards on revenue recognition. The FASB's Accounting Standards Update ("ASU") No. 2014-09, Revenue from Contracts with Customers (Topic 606), as amended from time to time, outlines a single comprehensive model for entities to use in accounting for revenue arising from contracts with customers and supersedes most current revenue recognition guidance, including industry-specific guidance. The new revenue recognition guidance becomes effective for the Company on January 1, 2018, with early adoption permitted for the Company on January 1, 2017. Entities have the option of using either a full retrospective or a modified approach to adopt the guidance in the ASU. The Company does not currently expect that adoption of the updated standard will have a material impact on its consolidated financial statements.

2. Acquisitions and Divestitures

Acquisitions are accounted for using the acquisition method and the acquired companies' results have been included in the accompanying consolidated financial statements from their respective dates of acquisition. In each case for the acquisitions disclosed below, pro forma information assuming the acquisition had occurred at the beginning of the earliest period presented is not included as the impact is immaterial.

Our acquisitions have historically been made at prices above the fair value of the acquired identifiable assets, resulting in goodwill, due to expectations of synergies that will be realized by combining businesses. These synergies include the use of our existing sales channel to expand sales of the acquired businesses' products, consolidation of manufacturing facilities, and the leveraging of our existing administrative infrastructure.

RestoreFlow Allografts

On November 10, 2016, we entered into an agreement to acquire the assets of Restore Flow Allografts, LLC, a provider of human vascular tissue processing and cryopreservation services, for an initial purchase price of \$12 million, with additional payments of up to \$6 million depending upon the satisfaction of certain contingencies. A payment of \$2 million is due not later than 15 days following the expiration of the 18 month period following the closing date, subject to reductions as specified in the agreement for each calendar month that certain retained employees are not employed by us due to resignation without good reason, or termination for cause, both as defined in the agreement. The portion of this payment that will be paid to retained employees and that is contingent on their continuing employment, approximately \$0.9 million, will be accounted for as post-combination compensation expense rather than purchase consideration. There are also two potential eam-outs under the agreement. The first eam-out is calculated at 50% of the amount by which net revenue in the first 12 months following the closing exceeds \$6 million, with such payout not to exceed \$2 million, with such payout not to exceed \$2 million, with such payout not to exceed \$2 million.

The RestoreFlow business derives revenue from human tissue preservation services, in particular the processing and cryopreservation of vascular veins and arteries. By federal law, human tissues cannot be bought or sold. Therefore, the tissues we obtain and preserve are not held as inventory, and the costs we incur to procure and process vascular tissues are instead accumulated and deferred. Revenues are recognized for the provision of cryopreservation services rather than product sales. Revenues from the acquisition date through December 31, 2016 were \$0.5 million.

The acquired assets included intellectual property, permits and approvals, data and records, equipment and furnishings, accounts receivable, inventory, literature, and customer and supplier information. We also assumed certain accounts payable. We accounted for the acquisition as a business combination.

The following table summarizes the preliminary purchase price allocation as of December 31, 2016:

Accounts receivable Fair Value (in thousand 56		
· · · · · · · · · · · · · · · · · · ·	Fair Value	
Accounts receivable \$ 56	ls)	
	51	
Deferred cryopreservation costs 2,67	13	
Equipment and supplies	25	
Accounts payable (28	36)	
Intangible assets 4,54	14	
Goodwill 5,34	12	
Purchase price \$ 12,95	;9	

The goodwill is deductible for tax purposes over 15 years.

The following table reflects the preliminary allocation of the acquired intangible assets and related estimated useful lives:

			Weighted
	Alloc	Allocated	
	Fair V	Value	Useful Life
	(in thou	sands)	
Non-compete agreements	\$	180	5.0 years
Tradename		271	9.0 years
Procurement contracts		617	9.0 years
Technology		2,793	10.5 years
Customer relationships		683	12.5 years
Total intangible assets	\$	4,544	

The weighted-average amortization period of the acquired intangible assets was 10.3 years.

ProCol Biologic Graft

On March 18, 2016, we acquired the ProCol biologic vascular graft ("ProCol") business for \$2.7 million from Hancock Jaffe Laboratories, Inc. (HJL) and CryoLife, Inc. (CRY). HJL was the owner and manufacturer of ProCol and CRY was the exclusive distributor of the ProCol graft. CRY also owned an option to purchase the ProCol business, which we acquired from CRY. We bought finished goods inventory and other ProCol related assets from CRY for \$2.0 million, which was paid in full at closing. We bought other ProCol assets from HJL for \$0.7 million, 50% of which was paid at closing, 25% of which was paid in the quarter ended September 30, 2016 and the remainder of which will be paid within one year of closing. Additional consideration is payable to HJL for a three-year period following the closing, calculated at 10% of ProCol revenues. This additional consideration was initially valued at \$0.3 million and will be re-measured each reporting period until the payment requirement ends, with any adjustments reported in income from operations. For the year ended December 31, 2016, the amount of the adjustment was not material to our financial statements.

Assets acquired included inventory, intellectual property and a related license, the ProCol trade name, customer lists, non-compete agreements and certain equipment and supplies. We did not assume any liabilities. We accounted for the acquisition as a business combination.

The following table summarizes the preliminary purchase price allocation as of December 31, 2016:

_ Fa	ir Value
(in t	housands)
Inventory \$	2,080
Manufacturing equipment and supplies	25
Intangible assets	620
Goodwill	318
Purchase price \$	3,043

The goodwill is deductible for tax purposes over 15 years.

The following table reflects the preliminary allocation of the acquired intangible assets and related estimated useful lives:

Alloo	atod	Weighted Average	
Allocated Fair Value		Useful Life	
(in thou	sands)	<u> </u>	
\$	84	5.0 years	
	109	9.5 years	
	277	9.0 years	
	150	9.0 years	
\$	620		
	Fair V (in thou	(in thousands) \$ 84 109 277 150	

The weighted-average amortization period of the acquired intangible assets was 8.6 years.

Tru-Incise Valvulotome

In May 2015, we entered into an asset purchase agreement with UreSil, LLC (UreSil) to acquire the production and distribution rights of UreSil's Tru-Incise valvulotome for sales outside the United States for a purchase price of approximately \$1.4 million. We paid \$1.1 million at the closing and \$0.2 million in 2016, with the remaining \$0.1 million payable in 2017. We accounted for the acquisition as a business combination. Assets acquired included inventory and intellectual property. We did not assume any liabilities. The purchase accounting is complete.

The following table summarizes the purchase price allocation at the date of the acquisition:

	Allocated
	Fair Value
	(in thousands)
Inventory	\$ 88
Intangible assets	545
Goodwill	742
Purchase price	\$ 1,375

The goodwill is deductible for tax purposes over 15 years.

The following table reflects the allocation of the acquired intangible assets and related estimated useful lives:

		Weighted
	Allocated	Average
	Fair Value	Useful Life
	(in thousands)	
Non-compete agreement	\$ 120	5.0 years
Tradename license	17	3.0 years
Technology	391	7.0 years
Customer relationships	17_	3.0 years
Total intangible assets	\$ 545	

Other 2015 Items

Following the May 2015 Tru-Incise valvulotome acquisition, we entered into definitive agreements with seven UreSil distributors to terminate their distribution of the Tru-Incise valvulotome for aggregate termination fees of \$0.2 million. We recorded approximately \$0.2 million of intangible assets with a weighted-average amortization period of 3.0 years.

In August 2015, we entered into a definitive agreement with Grex Medical Oy (Grex), our distributor in Finland to terminate their distribution of our products, and we began selling direct to hospitals in Finland as of January 1, 2016. The agreement required us to pay approximately \$0.2 million in exchange for the purchase of customer lists and a non-compete agreement.

Angioscope

In September 2014, we entered into an asset purchase agreement with Applied Medical Resource Corporation (Applied Medical) to acquire substantially all the assets related to Applied Medical's angioscope product line for \$0.4 million. We paid \$0.3 million at closing and the remaining \$0.1 million is payable in December 2015. We accounted for the acquisition as a business combination. Assets acquired include inventory, property and equipment, and intellectual property.

The following table summarizes the fair value of the assets acquired and liabilities assumed at the date of the acquisition:

		located r Value
	(in th	ousands)
Inventory	\$	26
Property and equipment, net		38
Intangible assets		276
Goodwill		80
Total assets acquired		420
Total liabilities assumed		
Purchase price	\$	420

The goodwill is deductible for tax purposes over 15 years.

The following table reflects the allocation of the acquired intangible assets and related estimated useful lives:

		Weighted
	Allocated	Average
	Fair Value	Useful Life
	(in thousands)	
Non-compete agreement	\$ 3	2.0 years
Tradename	28	7.0 years
Technology	163	7.0 years
Customer relationships	82	9.0 years
Total intangible assets	\$ 276	

Xenotis Pty Ltd

In August 2014, we entered into a stock purchase agreement with the shareholders of Xenotis Pty Ltd (Xenotis) to acquire all of the capital stock of Xenotis for \$6.7 million with a mechanism for a purchase price adjustment based on the net tangible assets of Xenotis at closing. Xenotis is the parent company of Bio Nova International, the manufacturer and marketer of the Omniflow II biosynthetic vascular graft for lower extremity bypass and AV access. We paid \$5.1 million at the closing and the remaining \$1.4 million was paid in August 2015. The net tangible asset purchase price adjustment of \$0.2 million was paid in November 2014. We accounted for the acquisition as a business combination. Assets acquired include receivables, inventory, equipment, a building, and intellectual property. Liabilities assumed included accounts payable and debt.

The following table summarizes the fair value of the assets acquired and liabilities assumed at the date of the acquisition:

	Allocated
	Fair Value
	(in thousands)
Current assets	\$ 2,110
Property and equipment, net	2,054
Intangible assets	1,794
Goodwill	2,475
Total assets acquired	8,433
Total liabilities assumed	(1,731)
Purchase price	\$ 6,702

Total liabilities assumed of \$1.7 million include \$1.1 million of assumed debt, which we paid in full in August 2014. The purchase accounting is complete.

The goodwill of \$2.5 million is not deductible for tax purposes. In addition, we acquired deferred tax assets of \$2.4 million which consist primarily of net operating loss carry-forwards and capital loss carry-forwards. We assessed the need for a valuation allowance on the acquired deferred tax assets in Australia. Our assessment considered evidence such as current profitability, utilization of certain available tax assets and liabilities, and projected future earnings. Based on this evidence, we concluded that it was more likely than not that we would not be able to utilize the deferred tax assets in Australia. We recorded a full valuation allowance on these deferred tax assets.

The following table reflects the allocation of the acquired intangible assets and related estimated useful lives:

	Allocated	Weighted Average	
	Fair Value	Useful Life	
	(in thousands)		
Non-compete agreement	\$ 135	5.0 years	
Tradename	142	7.0 years	
Technology	1,465	7.0 years	
Customer relationships	52	7.0 years	
Total intangible assets	\$ 1,794		

In September 2014, we entered into definitive agreements with eight former Xenotis distributors in Europe to terminate their distribution of our Omniflow II biosynthetic vascular grafts for \$1.3 million. We paid approximately \$1.1 million in 2014 with the remainder due in 2015. We recorded \$0.4 million of inventory and \$0.9 million of intangible assets. We allocated the payment to the tangible and intangible assets acquired based on the estimated fair value of each of these elements to the transactions. The weighted-average amortization period for the acquired intangible assets is 5.0 years.

Ina Vein, LLC

In August 2013, we entered into an Asset Purchase Agreement with InaVein, LLC (InaVein) to acquire substantially all the assets of InaVein for \$2.5 million and potential acquisition-related contingent consideration totaling \$1.4 million in 2014 and 2015 dependent on the sales performance of the acquired business and the timing of regulatory approval in China. We paid \$2.1 million at the closing and the remaining \$0.4 million fixed payment was made in September 2014. We accounted for the acquisition as a business combination. Assets acquired include receivables, inventory, equipment, and intellectual property. Liabilities assumed include payables and service contracts.

The following table summarizes the fair value of the assets acquired and liabilities assumed at the date of the acquisition:

	A	llocated
	Fz	ir Value
	(in t	housands)
Current assets	\$	670
Property and equipment, net		154
Intangible assets		1,143
Goodwill		668
Total assets acquired		2,635
Total liabilities assumed		(100)
	\$	2,535

The goodwill is deductible for tax purposes over 15 years.

The following table reflects the allocation of the acquired intangible assets and related estimated useful lives:

			Weighted	
	Allocated Fair Value		Average	
			Useful Life	
	(in tho	usands)		
Non-compete agreement	\$	70	5.0 years	
Tradename		163	8.0 years	
Technology		354	6.0 years	
Customer relationships		556	7.0 years	
Total intangible assets	\$	1,143		

The contingent consideration was initially valued at the date of acquisition and is remeasured each reporting period until the contingency is resolved. Based upon stronger than expected sales to China, we recorded an increase of \$0.1 million related to the contingent consideration, which was dependent on the sales performance of the acquired business in the first year following the closing of the transaction as a charge to general and administrative expense in 2014. In October 2014, we paid \$0.2 million related to the first sales related milestone. Neither the milestone related to the timing of the regulatory approval in China nor the second sales milestone was achieved.

The UnBalloon Divestiture

In July 2015, we entered into an asset sales agreement with Merit Medical Ireland Limited to sell our inventory, intellectual property, and customer lists associated with The UnBalloon non-occlusive modeling catheter product line for \$0.4 million which was recognized as a gain on divestiture in the third quarter of 2015. During the year ended December 31, 2014, we had recognized an impairment charge of \$0.2 million on The UnBalloon non-occlusive modeling catheter product line. Additionally, in 2014 we recognized a \$0.3 million charge to cost of sales related to the non-occlusive modeling catheter inventory.

The fair market valuations associated with these transactions fall within Level 3 (see Note 14) of the fair value hierarchy, due to the use of significant unobservable inputs to determine fair value. The fair value measurements were calculated using unobservable inputs, primarily using the income approach, specifically the discounted cash flow method. The amount and timing of future cash flows within our analysis was based on our due diligence models, most recent operational budgets, long range strategic plans and other estimates.

3. Inventory and Other Deferred Costs

Inventory consists of the following:

	December 31, 2016	December 31, 2015
	(in th	iousands)
Raw materials	\$ 2,810	\$ 3,062
Work-in-process	2,489	2,681
Finished products	11,662	9,462
Other deferred costs	2,617	
Total inventory	<u>\$ 19,578</u>	\$ 15,205

We held inventory on consignment of \$1.1 million as of both December 31, 2016 and 2015.

In connection with our recent acquisition of the RestoreFlow allograft business, other deferred costs include costs incurred for the preservation of human vascular tissues available for shipment, tissues currently in active processing, and tissues held in quarantine pending release to implantable status. By federal law, human tissues cannot be bought or sold. Therefore, the tissues we preserve are not held as inventory, and the costs we incur to procure and process vascular tissues are instead accumulated and deferred.

4. Property and Equipment

Property and equipment consists of the following:

	As of Dece	ember 31,
	2016	2015
	(in thou	sands)
Computers and equipment	\$ 2,801	\$ 2,560
Machinery and equipment	10,331	8,264
Building and leasehold improvements	6,579	6,143
Gross property and equipment	19,711	16,967
Less accumulated depreciation	(11,699)	(9,945)
Property and equipment, net	\$ 8,012	\$ 7,022

Depreciation expense is as follows:

5. Goodwill and Other Intangibles

Goodwill consists of the following:

	As of Dece	ember 31,
	2016	2015
Balance at beginning of year	\$17,789	\$17,281
Additions for acquisitions	5,660	742
Effects of currency exchange	(23)	(234)
Balance at end of year	\$23,426	\$17,789

Other intangibles consist of the following:

	1	Deceml	oer 31, 2016	<u> </u>	I	Decemb	er 31, 2015	
	Gross Carrying Value		umulated ortization	Net Carrying Value	Gross Carrying Value		umulated ortization	Net Carrying Value
	· uiuc	7.500	oruzation		usands)	7 1111	ortization	varue
Product technology and intellectual property	\$10,173	\$	4,017	\$6,156	\$ 7,113	\$	3,247	\$3,866
Trademarks, tradenames and licenses	1,939		1,359	580	1,560		1,230	330
Customer relationships	5,216		2,588	2,628	3,801		2,143	1,658
Other intangible assets	1,558		1,025	533	1,297		815	482
Total identifiable intangible assets	\$18,886	\$	8,989	\$9,897	\$13,771	\$	7,435	\$6,336

These assets are being amortized over useful lives ranging from 1 to 13 years. The weighted-average amortization period for these intangibles as of December 31, 2016, is 8.9 years. Amortization expense is included in general and administrative expense and is as follows:

(in thousands)		
	2014	-
		_
pense \$1,605 \$1,513 \$	\$1,539)

Estimated amortization expense for each of the five succeeding fiscal years, based upon the intangible assets at December 31, 2016, is as follows:

			Year	ended December	31,	
	201)17	2018	2019	2020	2021
				(in thousands)		
ation expense	\$1,7	737 \$	1,552	\$1,388	\$1,114	\$919

6. Accrued Expenses and Other Long-term Liabilities

Accrued expenses consist of the following:

	ıber 31, 016	December 31, 2015
	 (in thousands	s)
Compensation and related taxes	\$ 6,124	\$ 6,062
Income and other taxes	312	483
Professional fees	122	530
Other	 2,246	1,762
Total	\$ 8,804	\$ 8,837

Other long-term liabilities consist of the following:

	Dec	ember 31,	Dec	ember 31,
		2016	thousands)	2015
Aquisition-related liabilities	\$	1,253	\$	265
Deferred rent		394		281
Income taxes		200		89
Other		154		139
Total	\$	2,001	\$	774

7. Commitments and Contingencies

Leases

We conduct the majority of our operations in leased facilities, which are accounted for as operating leases. Certain leases include renewal options. In addition, we lease automobiles and equipment under operating leases. There were no assets held under capital leases at December 31, 2016 and 2015.

Purchase Commitments

As part of our normal course of business, we have purchase commitments to purchase \$2.4 million of inventory through 2018. The purchase commitments for inventory are to be used in operations over the normal course of business and do not represent excess commitments or loss contracts.

Rent expense was as follows:

Ye	ar ended December	31,
2016	2015	2014
	(in thousands)	
<u>\$1,580</u>	\$1,506	\$1,435
	2016	(in thousands)

At December 31, 2016, the minimum rental commitments under all non-cancelable operating leases with initial or remaining terms of more than one year, for each of the following fiscal years, are as follows:

Contractual obligations	Total	Less than 1 year	1-3 years	3-5 years	More than 5 years
			(in thousands)		
Operating leases	\$ 8,498	\$ 1,546	\$2,703	\$2,217	\$ 2,032
Purchase commitments for inventory	2,418	2,393	25		
Total contractual obligations	\$10,916	\$ 3,939	\$2,728	\$2,217	\$ 2,032

8. Income Taxes

Income (loss) before income taxes is as follows:

	Ye	Year ended December 31,		
	2016	2015	2014	
		(in thousands)		
United States	\$12,600	\$10,469	\$5,341	
Foreign	3,642	955	979	
Total	<u>\$16,242</u>	\$11,424	\$6,320	

Certain of our foreign subsidiaries are included in the U.S. tax return as branches but are included as foreign for purposes of the table above.

The provision (benefit) for income taxes is as follows:

Ye	Year ended December 31,		
2016	2015	2014	
	(in thousands)		
\$4,409	\$3,218	\$2,058	
393	333	238	
710	499	181	
5,512	4,050	2,477	
197	(12)	(176)	
166	(466)	(14)	
(223)	94	118	
140	(384)	(72)	
\$5,652	\$3,666	\$2,405	

The Company elected to early-adopt ASU 2016-09 during the third quarter of 2016. Consequently, in 2016, the Company recorded excess tax benefits of \$0.3 million within income tax expense.

We have reviewed the tax positions taken, or to be taken, in our tax returns for all tax years currently open to examination by a taxing authority. As of December 31, 2016, the gross amount of unrecognized tax benefits exclusive of interest and penalties was \$0.4 million, which may increase within the twelve months ending December 31, 2017. We remain subject to examination until the statute of limitations expires for each respective

tax jurisdiction. The statute of limitations will be open with respect to these tax positions through 2025. A reconciliation of beginning and ending amount of our unrecognized tax benefits is as follows:

	2016	2015	2014
		(in thousands)
Unrecognized tax benefits at the beginning of year	\$ 82	\$ 23	\$111
Additions for tax positions of current year	95	_	20
Additions for tax positions of prior years	213	59	_
Reductions for settlements with taxing authorities.	_	_	(33)
Reductions for lapses of the applicable statutes of limitations			(75)
Unrecognized tax benefits at the end of the year	\$390	\$ 82	\$ 23

Deferred taxes are attributable to the following temporary differences:

	As of December 31	
	2016	2015
	(in thou	ısands)
Deferred tax assets:		
Inventory	\$ 753	\$ 589
Net operating loss carryforwards	2,272	2,786
Tax credit carryforwards	491	654
Capital loss carryforwards	1,077	1,090
Reserves and accruals	655	631
Intangible assets	1,299	996
Stock options	585	355
Other	35	16
Total deferred tax assets	7,167	7,117
Deferred tax liabilities:		
Property and equipment	(571)	(668)
Goodwill	(3,956)	(3,504)
Foreign branch deferred offset	(1,374)	(1,176)
Other	(43)	
Total deferred tax liabilities	(5,944)	(5,348)
Net deferred tax assets before valuation allowance	1,223	1,769
Valuation allowance	(1,765)	(2,242)
Net deferred tax liability	\$ (542)	\$ (473)
Deferred tax classification	·	<u> </u>
Long-term deferred tax asset	\$ 1,400	\$ 1,205
Long-term deferred tax liability	(1,942)	(1,678)
Net long-term deferred tax liability	\$ (542)	\$ (473)

We have assessed the need for a valuation allowance against our deferred tax assets and continue to carry a valuation allowance against \$1.8 million of foreign deferred tax assets; based on the weight of available evidence, we believe it is more likely than not such assets will not be realized. The valuation allowance against our deferred tax assets may require adjustment in the future based on changes in the mix of temporary differences, changes in tax laws, and operating performance.

In 2015, we released approximately \$400,000 of valuation allowances on certain deferred assets associated with state research and development credits. Our assessment considered evidence such as current profitability, utilization of certain available tax assets and liabilities, and projected future earnings. Based on this evidence, we

concluded that it was more likely than not that we would generate sufficient pre-tax income in future periods to utilize all of our deferred tax assets related to state research and development credits. In 2016, we assessed the need for a valuation allowance on our state research and development credits and concluded that we would have sufficient pre-tax income in future periods to utilize all of our deferred tax assets related to our state research and development credits.

In 2016, we released approximately \$295,000 and \$18,000 of valuation allowances on deferred assets in Spain and Switzerland, respectively. Our assessment considered evidence such as current profitability, utilization of certain available tax assets and liabilities, and projected future earnings. Based on this evidence, we concluded that we have generated consistent profitability in Spain and Switzerland and it is more likely than not that we would generate sufficient pre-tax income in future periods to utilize all of our deferred tax assets in Spain and Switzerland.

Realization of our deferred tax assets is dependent on our generating sufficient taxable income in future periods. Although we believe it is more likely than not that future taxable income will be sufficient to allow us to recover substantially all of the value of our deferred tax assets remaining after we apply the valuation allowances, realization is not assured and future events could cause us to change our judgment. In the event that actual results differ from our estimates, or we adjust these estimates in the future periods, further adjustments to our valuation allowance may be recorded, which could materially impact our financial position and net income (loss) in the period of the adjustment. As of December 31, 2016, we have net operating loss carryforwards in Australia of \$3.3 million that do not expire, in France of \$2.6 million that do not expire, in Spain of \$1.0 million that do not expire, in Italy of \$0.4 million that do not expire, in Sweden of \$0.1 million that do not expire, in Norway of \$0.1 million that do not expire and in Switzerland of \$45,000 that begin to expire in 2020. We have a capital loss carryforward in Australia of \$3.6 million that does not expire. We also have state tax credit carryforwards of approximately \$1.1 million that are available to reduce future tax liabilities, which expire at various dates through 2031, or can be carried forward indefinitely. Ownership changes, as defined by the Internal Revenue Code, may limit the amount of net operating losses and research and experimentation credit carryforwards that can be utilized annually to offset future taxable income and taxes payable.

A provision has not been made for U.S. or additional non-U.S. taxes on \$1.2 million of undistributed earnings of international subsidiaries that could be subject to taxation if remitted to the U.S. because we plan to keep these amounts permanently reinvested overseas. To the extent such foreign earnings were remitted in the future a deferred tax liability of \$0.4 million would be recorded.

A reconciliation of the Federal statutory rate to our effective tax rate is as follows:

	2016	2015	2014
Federal statutory rate	35.0%	34.0%	34.0%
State tax, net of federal benefit	1.3%	(2.1%)	2.3%
Effect of foreign taxes	(1.9%)	1.4%	(1.4%)
Subpart Fincome	1.6%	2.2%	1.7%
Valuation allowance	(2.6%)	0.4%	0.1%
Foreign deferred tax liability offset	1.5%	(0.9%)	(1.9%)
Manufacturing deduction	(2.5%)	(2.8%)	(3.5%)
Research & development tax credits	(0.7%)	(1.5%)	(2.4%)
Stock options	(0.7%)	0.6%	4.3%
Uncertain tax positions	2.0%	0.6%	(0.2%)
Italian permanent differences	0.0%	0.0%	3.2%
Other permanent differences	1.2%	1.3%	3.1%
Other	0.5%	(1.1%)	(1.3%)
Effective tax rate	34.8%	32.1%	38.0%

In 2016 the Internal Revenue Service completed an audit of our 2013 and 2014 U.S. federal tax returns. As a result of the audit we paid \$0.2 million in additional federal income taxes. Additionally, the adjustment settled on for this audit resulted in an additional \$0.2 million increase to our uncertain tax provisions for a state carryforward. We are not currently under audit in any other tax jurisdictions.

As of December 31, 2016, a summary of the tax years that remain subject to examination in our most significant tax jurisdictions are:

United States	2013 and forward
Foreign	2009 and forward

9. Stockholders' Equity

Authorized Shares

Our Certificate of Incorporation, as amended and restated from time to time, authorizes the issuance of up to 37,000,000 shares of common stock of 3,000,000 shares of undesignated preferred stock.

Under the terms of our certificate of incorporation, our board of directors is authorized to issue shares of the preferred stock in one or more series without stockholder approval. Our board of directors has the discretion to determine the rights, preferences, privileges and restrictions, including voting rights, dividend rights, conversion rights, redemption privileges and liquidation preferences, of each series of preferred stock. Currently, we have no shares of preferred stock outstanding.

Share Offering

On June 4, 2014, we issued 1,644,500 shares of our common stock, \$0.01 par value per share, at a price to the public of \$7.00 per share less underwriting discounts. The net proceeds, after deducting the underwriting discounts and other estimated offering expenses, were approximately \$10.5 million. We have deployed a portion of the net proceeds from the offering on acquisitions, and have used the remainder for general corporate purposes, including continued development of our products, working capital and capital expenditures, payments under our quarterly dividend program and deferred payments related to prior acquisitions.

Stock Award Plans

In May 2006 we approved a 2006 Stock Option and Incentive Plan (as subsequently amended, the 2006 Plan), which became effective upon our initial public offering. In 2010 we amended the 2006 Plan to increase the aggregate pool of available shares to 3,000,000 of common stock, and in 2015 the 2006 Plan was amended to increase the aggregate pool to 5,500,000 shares. The 2006 Plan allows for granting of incentive stock options, non-qualified stock options, stock appreciation rights, RSUs, unrestricted stock awards, and deferred stock awards to our officers, employees, directors, and consultants. Incentive stock options are required to be issued at not less than fair market value at the date of the grant and generally vest over four or five years. The term of the options is determined by our Board of Directors but in no event will exceed ten years from date of grant. In connection with the adoption of the 2006 Plan, no further option grants were permitted under any previous stock option plans and any expirations, cancellations, or terminations under the previous plans are available for issuance under the 2006 Plan. We may satisfy awards upon exercise of stock options or RSUs with either newly issued shares or treasury shares. The total number of shares currently authorized for the 2006 Plan is 7,118,003 shares, of which 1,745,953 remain available for grant as of December 31, 2016.

We have computed the fair value of employee stock options using the following weighted average assumptions:

	2016	2015	2014
Dividend yield	1.3%	1.4%	1.8%
Volatility	34.5%	28.6%	45.2%
Risk-free interest rate	1.2%	1.8%	2.0%
Weighted average expected option term (in years)	5.5	5.6	5.5
Weighted average fair value per share of options granted	\$ 4.04	\$ 2.80	\$ 2.81
Aggregate intrinsic value of options exercised	\$2,391,154	\$6,534,800	\$819,478

A summary of option activity as of December 31, 2016 and the year then ended is presented below:

	Number of Shares	A	eighted Average rcise Price	Weighted Average Remaining Contractual Term (in years)	Aggregate Intrinsic Value
Balance outstanding at December 31, 2015	1,735,980	\$	8.39	4.28	\$15,381,584
Granted	510,745	\$	14.57		
Exercised (1)	(233,495)	\$	6.17		\$ 2,391,154
Canceled / Expired	(33,729)	\$	8.13		
Balance outstanding at December 31, 2016	1,979,501	\$	10.25	4.10	\$29,871,569
Vested and exercisable at December 31, 2016	640,024	\$	7.70	2.63	\$11,289,709
Expected to vest at December 31, 2016 (3)	1,339,477	\$	11.47	4.79	
Total	1,979,501				

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Weighted

- (1) The aggregate intrinsic value represents the difference between the exercise price and the closing price of our stock on the date of exercise.
- (2) The aggregate intrinsic value represents the difference between the exercise price and \$25.34, the closing price of our stock on December 31, 2016, for all in-the-money options outstanding.
- (3) Options outstanding that are expected to vest had previously been presented net of estimated future option forfeitures; upon early adoption of ASU 2016-09, we have elected to remove the forfeiture rate from the calculation.

Restricted Stock Units

A summary of our RSU activity is as follows:

		Average
		Grant Date
	Shares	Fair Value
Balance outstanding at December 31, 2015	191,345	\$ 8.45
Granted	128,947	\$ 14.14
Vested (1)	(58,341)	\$ 8.00
Canceled	(22,669)	\$ 9.60
Balance outstanding at December 31, 2016	239,282	\$ 11.51

(1) The number of RSUs vested includes the shares that we withheld on behalf of employees to satisfy minimum statutory tax withholding requirements.

The fair values of the RSUs that vested during 2016, 2015, and 2014 were \$0.8 million, \$0.7 million, and \$0.5 million, respectively.

We repurchase shares of our common stock in order to cover any minimum tax withholding liability associated with RSU vestings. A summary of our repurchases is as follows:

	2016	2015
Shares of common stock repurchased	21,671	23,928
Average per share repurchase price	\$ 14.33	\$ 11.12
Aggregage purchase price	\$310,505	\$266,090

Stock-based Compensation

The components of stock-based compensation expense included in the consolidated statements of operations are as follows:

20	16 2015	2014
	(in thousand	ds)
Stock option awards \$1,	116 \$ 992	\$ 917
Restricted stock units	564 432	385
Total stock-based compensation \$1,	<u>\$1,424</u>	\$1,302

Stock-based compensation is included in our statements of operations as follows:

	2016	2015	2014
		(in thousands)	<u>.</u>
Cost of sales	\$ 175	\$ 165	\$ 150
Sales and marketing	373	284	309
General and administrative	983	869	757
Research and development	149	106	86
Total stock-based compensation	\$1,680	\$1,424	\$1,302

We expect to record the unamortized portion of share-based compensation expense of \$6.1 million for existing stock options and RSUs outstanding at December 31, 2016, over a weighted-average period of 3.8 years.

Stock Repurchase Plan

On July 25, 2016, our Board of Directors approved a stock repurchase program under which the Company is authorized to repurchase up to \$5.0 million of its common stock through transactions on the open market, in privately negotiated purchases or otherwise. This program may be suspended or discontinued at any time, and expires on the earlier of July 25, 2017 or when the authorized aggregate \$5.0 million repurchase limit is reached. We have not made any share repurchases under this program.

Dividends

In February 2011, our Board of Directors approved a policy for the payment of quarterly cash dividends on our common stock. Future declarations of quarterly dividends and the establishment of future record and payment dates are subject to approval by our Board of Directors on a quarterly basis. The dividend activity for the periods presented is as follows:

Record Date	Payment Date	Per Sha	are Amount	 d Payment
Fiscal Year 2016				
March 21, 2016	April 4, 2016	\$	0.045	\$ 825
May 25, 2016	June 8, 2016	\$	0.045	\$ 829
August 22,2016	September 2, 2016	\$	0.045	\$ 833
November 21, 2016	December 5, 2016	\$	0.045	\$ 836
Fiscal Year 2015				
March 20, 2015	April 3, 2015	\$	0.040	\$ 700
May 22, 2015	June 5, 2015	\$	0.040	\$ 705
August 20, 2015	September 3, 2015	\$	0.040	\$ 715
November 20, 2015	December 4, 2015	\$	0.040	\$ 725

On February 16, 2017, our Board of Directors approved a quarterly cash dividend on our common stock of \$0.055 per share payable on April 6, 2017, to stockholders of record at the close of business on March 22, 2017, which will total approximately \$1.0 million in payments.

10. Profit-Sharing Plan

We offer a 401(k) profit-sharing plan (the Plan) covering eligible U.S. employees to make tax deferred contributions, a portion of which are matched by us. We may make discretionary profit sharing contributions to the Plan in an amount determined by our Board of Directors. Our contributions vest ratably over six years of employment and amounted to approximately \$0.1 million, \$50,000 and \$30,000 for 2016, 2015 and 2014, respectively.

11. Restructuring Charges

In February 2014, we committed to a plan intended to improve operational efficiencies, which included a reduction in force of approximately 10% of our workforce and other cost-cutting measures, including the transfer of our Clinical Instruments manufacturing to our Burlington headquarters and corresponding closure of our Southbridge manufacturing facility. As a result, we recorded approximately \$0.4 million of severance related restructuring expense during the year ended December 31, 2014.

In April 2014, we committed to an additional reduction in force of approximately seven employees. As a result, we recorded approximately \$0.1 million of severance related restructuring expense during the year ended December 31, 2014.

The components of the restructuring charges were as follows:

	Year ended	ı	
	December 31, 2	December 31, 2014	
	(in thousand	s)	
Severance	\$ 4	199	
Other		27	
Total	<u>\$</u> 5	526	

The 2014 restructuring plans were paid in full during the year ended December 31, 2014.

12. Segment and Enterprise-wide Disclosures

The FASB establishes standards for reporting information regarding operating segments in financial statements. Operating segments are identified as components of an enterprise that engage in business activities for which separate, discrete financial information is available and is regularly reviewed by the chief operating decision-maker in making decisions on how to allocate resources and assess performance. We view our operations and manage our business as one operating segment. No discrete operating information is prepared by us except for sales by product line and operations by legal entity for local reporting purposes.

Most of our revenues are generated in the United States, Germany, and other European countries, Canada, the United Kingdom and Japan, and substantially all of our assets are located in the United States. Net sales to unaffiliated customers by country were as follows:

	Ye	Year ended December 31,		
	2016	2015	2014	
		(in thousands)		
United States	\$50,439	\$45,177	\$41,545	
Germany	10,350	9,090	7,639	
Other countries	28,362	24,085	21,913	
Net sales	\$89,151	\$78,352	\$71,097	

Total property and equipment held by geography were as follows:

	As of Dec	As of December 31,	
	2016	2015	
	(in tho	usands)	
United States	\$6,116	\$5,199	
Australia	1,535	1,593	
Germany	279	170	
Other countries	82	60	
Total property and equipment	\$8,012	\$7,022	

13. Supplemental Cash Flow Information

Supplemental disclosures of cash flow information are as follows:

<u></u>	Year ended December 31,		
2016	2015	2014	
<u></u>	(in thousands)	<u> </u>	
\$4,231	\$4,792	\$2,088	

14. Fair Value Measurements

The fair value accounting guidance requires that assets and liabilities carried at fair value be classified and disclosed in one of the following three categories:

- Level 1 Quoted prices in active markets for identical assets or liabilities.
- Level 2 Observable inputs other than quoted prices included in Level 1, such as quoted prices for similar assets and liabilities in active markets; quoted prices for identical or similar assets and liabilities in markets that are not active; or other inputs that are observable or can be corroborated by observable market data.
- Level 3 Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities. This includes certain pricing models, discounted cash flow methodologies and similar techniques that use significant unobservable inputs.

Level 1 assets being measured at fair value on a recurring basis as of December 31, 2016 included our money market mutual fund account.

We had no Level 2 assets being measured at fair value on a recurring basis as of December 31, 2016.

As discussed in Notes 1 and 2, several measurements of acquisition-related assets and impairments of intangible assets were measured using Level 3 techniques. The following table provides a rollforward of the fair value, as determined by Level 3 inputs, of contingent consideration liabilities for our prior and current acquisitions.

	Yea	Year ended December 31,		
	2016	2015	2014	
		(in thousands)		
Beginning balance	\$ —	\$	\$ 99	
Additions	1,301	_	_	
Payments	(68)	_	(237)	
Change in fair value included in earnings	87		138	
Ending balance	\$1,320	<u>\$—</u>	<u>\$ —</u>	

15. Quarterly Financial Data (unaudited)

	Three months ended			
<u>2016</u>	March 31	June 30	September 30	December 31
	(in thousands, except per share data)			
Total net sales	\$20,258	\$22,389	\$ 23,216	\$ 23,288
Gross profit	14,356	15,367	17,019	16,194
Income (loss) from operations	3,300	3,783	5,344	3,909
Net income	2,166	2,598	3,229	2,597
Earnings per share				
Basic	\$ 0.12	\$ 0.14	\$ 0.17	\$ 0.14
Diluted	\$ 0.11	\$ 0.14	\$ 0.17	\$ 0.13

	Three months ended			
2015	March 31	June 30	September 30	December 31
		(in thousands, except per share data)		
Total net sales	\$18,947	\$19,897	\$ 19,025	\$ 20,483
Gross profit	13,117	13,130	13,516	14,403
Income (loss) from operations	2,309	2,794	3,321	3,089
Net income (loss)	1,369	1,767	2,092	2,530
Earnings per share				
Basic	\$ 0.08	\$ 0.10	\$ 0.12	\$ 0.14
Diluted	\$ 0.08	\$ 0.10	\$ 0.11	\$ 0.13

EXHIBIT INDEX

			Incorporated By Reference		
Exhibit Number	Exhibit Description	Form	Date	SEC File Number	Filed Herewith
1.1	Underwriting Agreement dated as of May 30, 2014, among the Registrant, Canaccord Genuity Inc. and Stifel, Nicolaus & Company, Incorporated.	8-K	5/30/14	001-33092	
2.1	Purchase Option Agreement dated December 30, 2008 by and among the Registrant, Neovasc Inc. and Neovasc Medical Inc.	10-K	3/27/13	001-33092	
2.2	Amendment No. 1 to Exclusive Distribution Agreement and Purchase Option Agreement dated January 22, 2009 by and among the Registrant, Neovasc Inc. and Neovasc Medical Inc.	10-K	3/27/13	001-33092	
2.3	Amendment No. 2 to Purchase Option Agreement dated January 5, 2012 by and among the Registrant, Neovasc Inc. and Neovasc Medical Inc.	10-K	3/27/13	001-33092	
2.4	Amendment No. 3 to Purchase Option Agreement dated October 1, 2012 by and among the Registrant, Neovasc Inc. and Neovasc Medical Inc.	10-K	3/27/13	001-33092	
2.5	Amendment No. 4 to Purchase Option Agreement dated October 1, 2012 by and among the Registrant, Neovasc Inc. and Neovasc Medical Inc.	10-Q	8/7/14	001-33092	
2.6	Asset Purchase Agreement dated August 28, 2013 between Registrant and InaVein, LLC	10-Q	11/7/13	001-33092	
2.7	Share Purchase Deed dated August 14, 2014 among Xenotis Pty Ltd, the shareholders of Xenotis Pty Ltd, Vinogopal Ramayah (as the Selling Shareholder Representative), the Registrant and LeMaitre Vascular Pty Ltd.	10-Q	11/6/14	001-33092	
2.8	Asset Purchase Agreement dated November 10, 2016 between Registrant, Restore Flow Allografts, LLC and certain individuals named therein.				X
3.1	Amended and Restated By-laws of the Registrant	S-1/A	5/26/06	333-133532	
3.2	Second Amended and Restated Certificate of Incorporation of the Registrant	10-K	3/29/10	001-33092	
3.3	Amendment to Second Amended and Restated Certificate of Incorporation of the Registrant	8-K	6/15/12	001-33092	
4.1	Specimen Certificate evidencing shares of common stock	S-1/A	6/22/06	333-133532	
10.1	Northwest Park Lease dated March 31, 2003, by and between the Registrant and Roger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, as amended	S-1	4/25/06	333-133532	
10.2	Registration Rights Agreement dated June 17, 1998, by and between the Registrant and Housatonic Equity Investors, L.P.	S-1/A	5/26/06	333-133532	

		Incorporated By Reference		
Exhibit Number	Exhibit Description	Form	Date	SEC File Number
10.3	Director Compensation Policy	10-K	3/27/12	001-33092
10.4†	Executive Retention and Severance Agreement dated October 10, 2005, by and between the Registrant and George W. LeMaitre	S-1/A	5/26/06	333-133532
10.5†	Managing Director Employment Agreement dated October 1, 2008, by and between LeMaitre Vascular GmbH and Peter Gebauer, as amended	10-K	3/31/09	001-33092
10.6†	Employment Agreement dated June 20, 2006, by and between the Registrant and David Roberts	S-1/A	6/22/06	333-133532
10.7†	Employment Agreement dated April 20, 2006, by and between the Registrant and Joseph P. Pellegrino	S-1/A	6/22/06	333-133532
10.8†	1997 Stock Option Plan and form of agreements thereunder	S-1	4/25/06	333-133532
10.9†	1998 Stock Option Plan and form of agreements thereunder	S-1	4/25/06	333-133532
10.10†	2000 Stock Option Plan and form of agreements thereunder	S-1	4/25/06	333-133532
10.11†	2004 Stock Option Plan and form of agreements thereunder	S-1	4/25/06	333-133532
0.12†	Second Amended and Restated 2006 Stock Option and Incentive Plan and form of agreements thereunder	8-K	6/18/10	001-33092
0.13†	Form of Indemnification Agreement between the Registrant and its directors and executive officers	S-1/A	5/26/06	333-133532
0.14†	Form of Restricted Stock Unit Award Agreement under the Registrant's 2006 Stock Option and Incentive Plan	8-K	12/26/06	001-33092
10.15	Second Amendment of Lease dated May 21, 2007, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant	8-K	6/15/07	001-33092
10.16	Third Amendment of Lease dated February 26, 2008, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant	8-K	4/10/08	001-33092
10.17	Fourth Amendment of Lease dated October 31, 2008, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant	10-K	3/31/09	001-33092
10.18†	First Amendment to Executive Retention and Severance Agreement dated December 23, 2008, by and between the Registrant and George W. LeMaitre	10-K	3/31/09	001-33092
10.19†	First Amendment to Employment Agreement dated December 19, 2008, by and between the Registrant and David Roberts	10-K	3/31/09	001-33092

		Incorporated By Reference		Reference
Exhibit Number	Exhibit Description	Form	Date	SEC File Number
10.20†	First Amendment to Employment Agreement dated December 19, 2008, by and between the Registrant and Joseph P. Pellegrino	10-K	3/31/09	001-33092
10.21	Fifth Amendment of Lease dated March 23, 2010, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant	10-K	3/29/10	001-33092
10.22	Northwest Park Lease dated March 23, 2010, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant	10-K	3/29/10	001-33092
10.23	First Amendment to Northwest Park Lease dated September 14, 2010, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant	10-K	3/27/12	001-33092
10.24	Second Amendment to Northwest Park Lease dated October 31, 2011, by and between NWP Building 4 LLC, as successor-in-interest to Trustees of Northwest Associates, and Registrant	10-K	3/27/12	001-33092
10.25	Third Amendment of Northwest Park Lease dated August 31, 2012, by and between NWP Building 4 LLC, as successor-in-interest to Trustees of Northwest Associates, and Registrant	10-K	3/27/13	001-33092
10.26	Lease dated December 20, 2013, by and between N.W. Building 3 Trust and Registrant	8-K	12/23/13	001-33092
0.27	Fourth Amendment of Lease dated December 20, 2013, by and between NWP Building 4 LLC, as successor-in-interest to the Trustees of Northwest Associates, and Registrant	8-K	12/23/13	001-33092
0.28	Sixth Amendment of Lease dated December 20, 2013, by and between NWP Building 5 LLC, as successor-in-interest to the Trustees of Northwest Associates, and Registrant	8-K	12/23/13	001-33092
10.29†	Amended and Restated Management Incentive Compensation Plan	8-K	2/25/14	001-33092
10.30†	Third Amended and Restated 2006 Stock Option and Incentive Plan	8-K	6/8/15	001-33092
10.31†	Executive Retention and Severance Agreement dated October 26, 2015, by and between the Registrant and Michael T. Wijas.	10-K	3/10/16	001-33092
21.1	List of Subsidiaries			
23.1	Consent of Grant Thornton LLP			
23.2	Consent of Ernst & Young LLP			
24.1	Power of Attorney (included on the Signatures page of this Annual Report on Form 10-K)			

			Incorporated By Reference		
Exhibit Number	Exhibit Description	Form	Date	SEC File Number	Filed Herewith
31.1	Certification of Chief Executive Officer, as required by Rule 13a-14(a) or Rule 15d-14(a)				X
31.2	Certification of Chief Financial Officer, as required by Rule 13a-14(a) or Rule 15d-14(a)				X
32.1*	Certification of Chief Executive Officer, as required by Rule 13a-14(b) or Rule 15d-14(b) and Section 1350 of Chapter 36 of Title 18 of the United States Code (18 U.S.C. §1350)				X
32.2*	Certification of Chief Financial Officer, as required by Rule 13a-14(b) or Rule 15d-14(b) and Section 1350 of Chapter 36 of Title 18 of the United States Code (18 U.S.C. §1350)				X
101.INS	XBRL Instance Document.				X
101.SCH	XBRL Taxonomy Extension Schema Document.				X
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document.				X
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document.				X
101.LAB	XBRL Taxonomy Extension Label Linkbase Document.				X
101.PRE	XRBL Taxonomy Extension Presentation Linkbase Document.				X

[†] Indicates a management contract or any compensatory plan, contract, or arrangement.

^{*} The certifications attached as Exhibit 32.1 and 32.2 that accompany this Annual Report on Form 10-K, are not deemed filed with the Securities and Exchange Commission and are not to be incorporated by reference into any filing of LeMaitre Vascular, Inc. under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, whether made before or after the date of this Form 10-K, irrespective of any general incorporation language contained in such filing.

ASSET PURCHASE AGREEMENT

THIS ASSET PURCHASE AGREEMENT (this "<u>Agreement</u>"), dated November 10, 2016, is by and among LeMaitre Vascular, Inc., a Delaware corporation with an address at 63 Second Ave., Burlington, Massachusetts 01803 (the "<u>Purchaser</u>"), Restore Flow Allografts, LLC, a Delaware limited liability company, with an address at 912 Northwest Highway, Fox River Grove, Illinois 60021 (the "<u>Seller</u>"), and the following members of the Seller (collectively, the "<u>Specified Members</u>"): Torico Jones ("<u>Jones</u>"), Timothy Stevens ("<u>Stevens</u>") and Robert Kallen ("<u>Kallen</u>").

WITNESSETH:

WHEREAS, the Seller develops, processes, markets and sells cryopreserved cardiovascular and peripheral vascular allografts (the "Products");

WHEREAS, the Seller desires to convey, sell, transfer and assign to the Purchaser, and the Purchaser desires to purchase from the Seller, substantially all of the assets of the Seller on the terms and conditions hereinafter set forth;

WHEREAS, simultaneously with the execution and delivery of this Agreement and as a condition and material inducement to the willingness of the Purchaser to enter into this Agreement, the Purchaser and certain members and employees of the Seller are entering into employment, non-competition and confidentiality agreements; and

NOW, THEREFORE, in consideration of the covenants, promises and representations set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

ARTICLE I Purchase and Sale of Assets.

Section 1.1. Sale of Assets. Subject to the terms and conditions of this Agreement, the Seller does hereby sell, transfer, convey, assign and set over ("<u>Transfer</u>") to the Purchaser, and the Purchaser does hereby purchase and acquire from the Seller, all of the Seller's right, title and interest in and to any and all of its properties, rights, claims, contracts and assets, tangible or intangible, choate or inchoate, and wherever located (collectively, the "<u>Assets</u>"), excluding, however, the Excluded Assets (as defined below). The parties to this Agreement agree that in acquiring the Assets, and as the owner of the Assets, the Purchaser shall have sole discretion as to how, when and whether it uses, deploys, or otherwise exploits the Assets.

Section 1.2. Assets; Excluded Assets.

A. Assets. The term "Assets" shall include, without limitation, the Seller's right, title and interest in and to any and all of the following:

- 1. <u>Tangible Assets</u>. All machinery, equipment, business machines, tooling, furniture, furnishings, plant and office equipment, general office supplies, computers, servers and other tangible assets or personal property (collectively, the "<u>Tangible Assets</u>") of the Seller, wherever located, including without limitation those Tangible Assets of the Seller that are listed on Schedule 4.1(F).
- 2. <u>Inventory</u>. All inventories, including, without limitation, raw materials, components, work in process, finished goods, quarantined inventory, research—only inventory, demonstration models, medical product inventories, including, without limitation, any inventory in the possession of third parties, including Seller's Affiliates, and any consigned inventory, and administrative or other supplies (the "<u>Inventory</u>").
- 3. <u>Purchased Commitments</u>. Those agreements, orders and other rights of a contractual nature ("<u>Commitments</u>") specifically set forth on <u>Schedule 4.1(E)(1)</u> (the "<u>Purchased Commitments</u>") under the heading "Purchased Commitments."
 - 4. Prepaid and Other Items. Any and all prepaid and deferred items and advanced payments, and unbilled charges and deposits.
- 5. Intellectual Property. All licenses, patents, copyrights, designs and drawings, engineering and manufacturing documents, technical manuals, patterns, processes, formulae, know-how, trade secrets, trademarks, service marks, trade names, domain names, inventions and discoveries (whether patentable or not), computer software, source code, and other similar rights and agreements, including without limitation, any license or usage rights with respect to any of the foregoing and those items set forth on Schedule 4.1(H), and all applications therefor and registrations thereof, including without limitation all Proprietary Information (as hereinafter defined) of the Seller (collectively, "Intellectual Property"), including without limitation the names of the products of the Seller and all trademark and service mark rights relating to such names, if any, along with the rights (common law or otherwise), registrations and logos relating thereto, if any, and to the design elements and any variations or combinations thereof, and any and all rights to sue for past, present and future infringement or other violations of the same, and all goodwill associated with any of the foregoing.
- 6. <u>Permits and Approvals</u>. All permits, licenses, approvals, consents, registrations and authorizations (collectively, "<u>Approvals</u>"), including without limitation all of the Approvals listed on <u>Schedule 4.1(E)(3)</u>, together with all documents and records related thereto, including without limitation all validations, lot traceability records, clinical data, technical documentation, complaint files, records of adverse events, reports of adverse events, corrections or recalls, quality management documents and the like, to the extent transferable by assignment or otherwise.
- 7. <u>Data and Records</u>. The list of all customers, including those customers listed on <u>Schedule 4.1(P)</u>, and the data, books, records, correspondence, files and papers, whether in hard copy or electronic format used or held by the Seller, including, without limitation, engineering information, operating instructions, sales and promotional literature, manuals and data, sales and purchase and other customer correspondence, and all marketing materials related to the Products, including photos and art-work, drawings, prints and other like materials.

- 8. <u>Development Materials</u>. All rights of the Seller related to the development of the Products and any in-process research and development of Seller existing on the Closing Date.
 - 9. Accounts Receivable. All receivables arising out of the sale of goods by the Seller, as set forth on Schedule 4.1(S).
 - 10. Goodwill. All goodwill associated with the Business prior to the transactions contemplated by this Agreement.
- B. Excluded Assets. Notwithstanding anything contained in this Agreement to the contrary, the following assets of the Seller (the "Excluded Assets") are not included in the Assets:
 - 1. Cash. All cash, cash equivalents and other investments of the Seller.
- 2. <u>Insurance</u>. Any policies of insurance of the Seller, whether or not relating to the Business or the Assets, excluding any policy listed on <u>Schedule 4.1(E)(1)</u> as a Purchased Commitment.
- 3. Excluded Commitments. All Commitments other than the Purchased Commitments (the "Excluded Commitments"), including, without limitation, the Excluded Commitments listed on Schedule 4.1(E)(1) under the heading "Excluded Commitments."
- 4. Other Excluded Assets. The assets listed on Schedule 1.2(B)(4), provided, however, that the parties hereto agree that the Purchaser may use such assets as long as any operations of the Business are conducted at the Premises (as hereinafter defined).

ARTICLE II Closing and Purchase Price.

Section 2.1. <u>Closing</u>. The closing of the transactions contemplated hereby (the "<u>Closing</u>") will take place simultaneously with the execution and delivery of this Agreement in Chicago, Illinois, on November 10, 2016 (the "<u>Closing Date</u>"), and shall be effective as of 11:59 p.m. on the Closing Date.

Section 2.2. <u>Payment</u>. In consideration of the Transfer to the Purchaser of the Assets and of the other representations, warranties and covenants herein, the Purchaser shall pay to or for the account of the Seller the total amount of \$18,000,000, subject to adjustment as provided for below (the "<u>Purchase Price</u>"), of which:

- a. \$12,000,000 is being paid at the Closing to the Seller by wire transfer of immediately available funds (such payment being hereby acknowledged by the Seller) in accordance with a funds flow memorandum in the form of Exhibit F hereto, which shall be mutually agreed to and signed by the Purchaser and the Seller;
- b. \$2,000,000 (the "Holdback Amount") shall be paid by the Purchaser to the Seller not later than 15 days following the expiration of the eighteen (18) month period following the Closing Date by wire transfer of immediately available funds; provided, however, that (i) the Holdback Amount shall be reduced by \$74,074 for each calendar month between the Closing Date and the 18 month anniversary of the Closing Date during which Jones is not employed by the Purchaser due to his resignation without Good Reason or the termination of his employment by the Purchaser for Cause; and (ii) the Holdback Amount shall be reduced by \$37,037 for each calendar month between the Closing Date and the 18 month anniversary of the Closing Date during which Stevens is not employed by the Purchaser due to his resignation without Good Reason or the termination of his employment by the Purchaser for Cause; provided, however that the maximum amount by which the Holdback Amount shall be reduced pursuant to this clause (ii) during such period shall be capped at \$444,444 (12 x \$37,037); and further provided that any reductions to the Holdback Amount pursuant to the foregoing clauses (i) and (ii) shall be liquidated damages representing the lost value of the Seller's workforce in place as of the Closing Date, the actual value of which would be difficult to determine;
- c. 0.5x times the amount by which Net Sales (as defined on Schedule 2.2) in the first 12-month period following the Closing Date exceed \$6,000,000 (the "First Earn-Out") shall be payable by the Purchaser to the Seller subject to Net Sales exceeding \$6,000,000 in such period; provided, however that the First Earn-Out shall not exceed \$2,000,000; and
- d. 0.5x times the amount by which Net Sales in the second 12-month period following the Closing Date exceed \$9,000,000 (the "Second Earn-Out") shall be payable by the Purchaser to the Seller subject to Net Sales exceeding \$9,000,000 in such period; provided, however that the Second Earn-Out shall not exceed \$2,000,000.

The First Earn-Out and the Second Earn-Out shall be paid by wire transfer of immediately available funds within 15 days of the date that Net Sales for the relevant twelve month period have been finally determined by the Purchaser's finance department and communicated to the Seller in writing, which date shall be no later than 45 days following the conclusion of the relevant twelve month period (each a "Determination Date") and such Net Sales have been determined to have exceeded the applicable Net Sales levels set forth above.

The Seller shall have the right to have a certified public accountant (a "Reviewing CPA") of its selection audit the books and records of the Purchaser relevant to the calculation of Net Sales within 45 days following the Determination Date for the First Earn-Out and the Second Earn-Out. The Purchaser covenants to give the Reviewing CPA access to the books, records and work papers of Purchaser and its Affiliates relevant to the calculation of Net Sales, subject to reasonable advance notice and during normal business hours. If the Reviewing CPA determines that the Purchaser has not paid the Seller the full amount, if any, due to it for either the First Earn-Out or the Second Earn-Out and provides the Seller and the Purchaser a report setting forth its determination (the "CPA Report") and the Purchaser does not dispute the Reviewing CPA's determination pursuant to the procedure set forth in the paragraph below, then Purchaser shall within 15 Business Days of its receipt of the CPA Report pay the Seller in full for such short-fall or the undisputed portion thereof. If the Reviewing CPA determines that Purchaser has overpaid Seller for either the First Earn-Out or the Second Earn-Out, then Seller shall within 15 Business Days of its receipt of the CPA Report pay to the Purchaser the amount of the overpayment that is not then subject to a Dispute Notice. The Seller shall pay the fees and expenses of the Reviewing CPA unless the short-fall, if any, for the relevant period exceeds \$75,000, in which case, the Purchaser shall pay the reasonable fees and expenses of the Reviewing CPA.

If the Purchaser delivers written notice (the "Dispute Notice") to the Seller within 15 Business Days of its receipt of the CPA Report, stating that the Purchaser objects to the Reviewing CPA's determination, and specifying the basis for such objection in reasonable detail, the Seller and the Purchaser will attempt to resolve the dispute as promptly as practicable. If the Seller and the Purchaser are unable to reach agreement within 45 days after delivery of the Dispute Notice, the Seller and the Purchaser agree that Alexander Aronson Finning CPAs (the "Expert") shall resolve the disputed items specified in the Dispute Notice. The Seller and Purchaser agree that if Alexander Aronson Finning CPAs shall not be available to serve as the Expert for any reason, then the Seller and the Purchaser shall designate Baker Newman Noyes as the Expert to resolve the disputed items specified in the Dispute Notice. The Expert will (i) resolve the disputed items specified in the Dispute Notice and (ii) calculate the Net Sales for the First Eam-Out or the Second Eam-Out, as applicable, as modified only by the resolution of such items, and in each case in accordance with the methodology for the calculation of "Net Sales" as provided in this Agreement. The determination of the Expert will be made within 60 days after being selected and will be final and binding upon the parties. If the Expert determines that Seller has been underpaid for either the First Earn-Out or the Second Earn-Out, then Purchaser shall within 15 Business Days of its receipt of the determination of the Expert pay to the Seller shall within 15 Business Days of its receipt of the determination of the Expert pay to the Purchaser the amount of the overpayment. The fees and expenses of the Expert will be borne by the party whose position did not substantially prevail in such determination, or if the Expert determines that neither party could be fairly found to be the substantially prevailing party, then such fees, costs and expenses will be borne 50% by the Seller,

From and after the Closing, the Purchaser shall have sole discretion with regard to all matters relating to the operation of the Business and the Assets. The Seller acknowledges that the Purchaser has no obligation to Seller to operate the Business in order to achieve or maximize the First Earn-Out or the Second Earn-Out and there is no assurance that the Purchaser will achieve Net Sales at the levels necessary to trigger the First Earn-Out or the Second Earn-Out. From and after the Closing until the conclusion of the Second Earn-Out, the Purchaser will maintain records reasonably required to calculate Net Sales.

Section 2.3. <u>Closing Documents</u>. The Seller and the Purchaser shall deliver to each other, at the Closing, the certificates, consents, approvals, agreements, and documents relating to the transactions contemplated by this Agreement that are set forth on <u>Schedule 2.3</u> hereto (collectively with this Agreement, the "<u>Closing Documents</u>").

ARTICLE III Liabilities.

Section 3.1. <u>Assumed Liabilities</u>. As consideration for the purchase of the Assets pursuant to this Agreement, the Purchaser does hereby assume, and does hereby agree to pay, satisfy, discharge and perform, in accordance with their respective terms, the following: (i) those specific liabilities and obligations of the Seller arising under the Purchased Commitments, provided however, the Purchaser shall not so assume any such obligations or liabilities under any Purchased Commitment to the extent that (a) such obligations or liabilities arise out of a breach by the Seller or its affiliates or predecessors of any such Purchased Commitment; (b) such obligations or liabilities arise out of facts or circumstances that constitute a breach of the Seller's representations and warranties to the Purchaser hereunder; (c) such obligations or liabilities relate to any period(s) prior to the date of assumption at the Closing; or (d) a true and complete signed copy of such Purchased Commitment was not provided to the Purchaser; (ii) the Payables (as defined in Section 4.1(S); and (iii) to the extent not included in the Payables, commissions owing for sales attributable to Receivables (as defined below), and collectively, such obligations and liabilities assumed as aforesaid, the "Assumed Liabilities").

Section 3.2. Excluded Liabilities. Notwithstanding anything to the contrary contained in this Agreement, the Schedules hereto or any other Closing Document, the Purchaser does not and will not assume or agree to pay, satisfy, discharge or perform, and shall not be deemed by virtue of the execution and delivery of this Agreement or any other Closing Document, or as a result of the consummation of the transactions contemplated by this Agreement, the Closing or otherwise to have assumed, or to have agreed to pay, satisfy, discharge or perform any of the Excluded Liabilities. The term "Excluded Liabilities," as used herein, shall mean any and all liabilities, debts, claims, obligations, taxes, expenses or damages, whether known or unknown, contingent or absolute, named or unnamed, disputed or undisputed, legal or equitable, determined or indeterminable, or liquidated or unliquidated (any and all of the foregoing, "Liabilities") that are not specifically Assumed Liabilities, including without limitation (i) any and all Liabilities relating to employee benefits or compensation arrangements prior to the time that any employee of the Seller becomes an employee of the Purchaser, including, without limitation, any Liabilities under the Seller's employee benefit agreements, plans or other arrangements or any payroll, bonus, severance or wages owed; (ii) any and all Liabilities of the Seller for Taxes; (iii) other than the Payables, any and all Liabilities that may arise or have arisen in connection with Products produced or sold by the Seller prior to the Closing, including warranty obligations; (iv) any and all Liabilities arising between the Seller and any distributors or sales agents of any of the Products (except for commissions owing for sales attributable to Receivables (as defined below)); (v) any Liabilities of the Seller in respect of indebtedness (whether absolute, accrued, contingent, fixed or otherwise, whether due or to become due) of the Seller of any kind, including but not limited to any amounts owing by the Seller to any members of the Seller and under the Seller's line of credit; (vi) any Liabilities in respect of the Leases prior to the Closing Date; (vii) any Liabilities or amounts owing to Dr. Mark Keldahl or Dr. H. Edward Garrett for services rendered prior to the Closing Date; (viii) any Liabilities arising between the Seller and Vital Care Industries, Inc.; and (ix) any Liabilities arising from the termination of Commitments identified on Schedule 4.1(E)(5).

ARTICLE IV Representations and Warranties.

Section 4.1. Representations and Warranties by the Seller and the Specified Members. The Seller, Jones and Stevens jointly and severally, and Kallen as to Sections 4.1(A), (B), (C), (D), (H), (I) and (Q) only, hereby represent and warrant to the Purchaser that, except as disclosed in the Schedules to this Agreement to the contrary:

A. Corporate Existence and Qualification; Due Execution; Etc. The Seller is a limited liability company duly organized, validly existing and subsisting under the Laws of the State of Delaware and has the requisite corporate power and authority to own, lease or otherwise hold the Assets and to carry on the Business as conducted through the Closing Date. The Seller has all requisite corporate power and authority, and each Specified Member has all requisite power and authority, to execute, deliver and perform this Agreement and the Closing Documents to which it is a party and to consummate the transactions contemplated hereby and thereby. The execution and delivery of this Agreement and the Closing Documents to be executed by the Seller and the consummation by the Seller of the transactions contemplated hereby and thereby have been duly authorized by all requisite corporate action, including the authorization and approval of the board of managers and the members of the Seller. Assuming the due execution of this Agreement and the Closing Documents by the Purchaser, this Agreement and the Closing Documents to which the Seller or any of its Affiliates and each Specified Member is a party constitute valid and binding obligations of the Seller and each such Affiliate and each Specified Member, enforceable in accordance with their respective terms, subject only to applicable bankruptcy, insolvency, reorganization, moratorium or other similar Laws relating to creditors' rights generally and to general principles of equity (regardless of whether such enforcement is considered in a proceeding at law or in equity). The Seller has no subsidiaries and is not a participant in any joint venture, partnership or similar arrangement.

- B. No Violation. Neither the execution and delivery by the Seller or any Specified Member of this Agreement or the Closing Documents to be executed by the Seller or its Affiliates or any Specified Member, nor the consummation by the Seller, any such Affiliate or any Specified Member of the transactions contemplated hereby or thereby: (i) violates or will violate any Law applicable to the Seller, such Affiliate or the Specified Members; (ii) violates or will violate any order, ruling, writ, judgment, injunction or decree of any Governmental Entity (an "Order") applicable to the Seller such Affiliate or the Specified Members; (iii) conflicts or will conflict with, or results or will result in a breach of or default under the certificate of formation, operating agreement or other organizational document of the Seller, or results or will result in any breach of any Commitment applicable to the Seller or such Affiliate; (iv) results or will result in the imposition of any Lien (as defined below) on any of the Assets; or (v) conflicts with any agreement, contract or other instrument to which the Seller or any Specified Member is a party. As used herein, the term "Lien" means any liens, claims, mortgages, charges, security interests, leases, covenants, options, pledges, rights of others, easements, rights of refusal, reservations, restrictions, encumbrances and other defects in title. Except as set forth on Schedule 4.1(B), no consent, authorization, or approval from, or registration or filing with, any Governmental Entity or any other third party is required to be obtained or made by or with respect to the Seller in order to perform its obligations under this Agreement or in connection with the consummation of the transactions hereunder.
- C. <u>Financial Information</u>. Attached hereto as <u>Schedule 4.1(C)</u> are true and complete financial statements and other financial information of Seller's Business for the last three fiscal years and the three and six months ended June 30, 2016. Compiled financial statements for the three and nine months ended September 30, 2016 have not been completed. Except as to the classification of certain costs/expenses above versus below the gross profit line, all information provided on <u>Schedule 4.1(C)</u> fairly and accurately present the financial position of the Business at the dates indicated in such financial statements or information and the results of the Business' operations for the periods stated therein and has been prepared in accordance with GAAP, consistently applied throughout such periods except as set forth on <u>Schedule 4.1(C)</u>.

D. Absence of Certain Transactions. Except as set forth on Schedule 4.1(D), since July 1, 2016, (i) the Seller has caused its Business to be operated only in the ordinary course, consistent with past historical practice over the preceding twelve months ("Ordinary Course of Business"), and (ii) there has been no Material Adverse Effect. Without limiting the generality of the foregoing, since such date, with respect to the Business, the Seller has not: (1) disposed of any assets, incurred any accounts payable or receivable, or acquired any material assets, except in the Ordinary Course of Business; (2) entered into or amended or terminated any agreements or arrangements with customers or suppliers other than in the Ordinary Course of Business; (3) entered into or renewed any distribution agreements; (4) granted or entered into any mortgage, security, charge, surety, guarantee or indemnity (save for Liens arising in the Ordinary Course of Business; (6) permitted any insurances to lapse or done or omitted to do anything which could make any insurance policy void or voidable; (7) altered from its standard collection practices with respect to any accounts receivable; (8) entered into any transaction with any Affiliate with respect to its Business; (9) granted any salary or wage increases, or changed or amended any Employee Plan except in the Ordinary Course of Business; (10) materially changed the pricing charged for the Products; (11) taken any action, or otherwise omitted to take any action, which, if this Agreement had been in effect at such time, would have reasonably been expected to cause a breach of the Seller's representations, warranties, covenants and agreements herein; or (12) agreed or committed to do any of the foregoing.

E. Material Contracts and Obligations; Approvals.

- 1. <u>Purchased Commitments</u>. The Seller has delivered to the Purchaser true and complete signed copies of all Purchased Commitments that are in written form and any amendments thereto. Each such Purchased Commitment is in full force and effect immediately following the Transfer of the Assets at the applicable Closing and represents the valid and binding obligation of the Seller. All Purchased Commitments are listed under the sub-heading "Purchased Commitments" on <u>Schedule 4.1(E)(1)</u> and all Excluded Commitments are listed under the sub-heading "Excluded Commitments" on <u>Schedule 4.1(E)(1)</u>. The Seller has no contracts or Commitments other than those represented by the Purchased Commitments and the Excluded Commitments. The only Commitments relating to the sales of the Products in which a payment would be owed to the counterparty due to the termination of the Commitment are listed on Schedule 4.1(E)(1) under the sub-heading "Commitments with Termination Fees." There are no oral contracts, agreements or arrangements that pertain to the Business.
- 2. <u>Defaults</u>. With respect to each Purchased Commitment to which the Seller is a party (including as an assignee), such Purchased Commitment is legal, valid, binding, enforceable, and in full force and effect; such Purchased Commitment is freely assignable to the Purchaser under the terms of the Purchased Commitment or under the law of the jurisdiction governing such Purchased Commitment; each of the Seller and, to the Knowledge of the Seller, the other party or parties thereto, has performed in all material respects all obligations required to be performed by it thereunder through the Closing Date; the Seller and, to the Knowledge of the Seller, the other party or parties thereto, is not (with or without the lapse of time or the giving of notice, or both) in default under any such Purchased Commitment; and the Seller has not received any notice of any default (whether monetary or non-monetary) or termination of any such Purchased Commitment from any other party thereto.

- 3. Approvals. Schedule 4.1(E)(3) sets forth a true and complete list of all Approvals currently held by the Seller, by Product and territory, true and complete copies of which have been provided by the Seller to the Purchaser. The Approvals constitute all of the permits, licenses, approvals, registrations, consents and authorizations required for the conduct of the Seller's Business as conducted prior to the Closing Date. All Approvals are valid and subsisting and in good standing and there is no default thereunder. The Seller has not received notice of any claim, action, suit, proceeding or investigation pertaining to its Business in or before any Governmental Entity, whether brought, initiated, asserted or maintained by a Governmental Entity or any other person or entity nor, to the Knowledge of the Seller, has any such claim, action, suit, proceeding or investigation been threatened, to revoke, suspend or limit the rights of the Seller under any of the Approvals, and the Seller is in compliance in all material respects with each of the Approvals. Seller owns all such Approvals and has not previously transferred any Approval to a third party.
- 4. Absence of Certain Business Commitments. The Seller has no Commitments of the following types: (1) any Commitment granting to any person a first-refusal, first-offer or other right to purchase or acquire any Assets; (2) any Commitment under which the Seller is or has agreed to become a joint venture or partner; (3) any Commitment granting a power of attorney that could be binding upon the Purchaser; (4) any Commitment with respect to letters of credit, surety or other bonds, or pursuant to which any assets or properties of the Seller are, or are to be, subjected to a Lien; or (5) any Commitment to indemnify any third party, except as identified on Schedule 4.1(E)(4).
- 5. <u>Disposition of Certain Commitments</u>. The Seller is legally entitled to terminate those Commitments identified on <u>Schedule 4.1(E)(5)</u> in accordance with their terms, effective as of the Closing Date.
- F. Assets. Schedule 4.1(F) sets forth a true and complete list of all of the Assets as of the Closing Date, giving the location and any identifying number reasonably necessary for the identification of such Asset. All Tangible Assets included in the Assets are in good operating condition, normal wear and tear excepted, and are generally adequate and suitable for the uses to which they are being put. There are no facts or conditions affecting the Assets that could reasonably be expected, individually or in the aggregate, to interfere in any material respect with the use or operation thereof as currently used or operated or their adequacy for such use or operation. The books and records included in the Assets, all of which have been made available to the Purchaser, are true and complete in all material respects.
- G. <u>Title to Assets</u>. Immediately prior to Closing, the Seller is the sole, true and lawful owner of, and has good and marketable title in and to, all of the Assets, free and clear of all Liens. Upon consummation of the transactions contemplated hereby, Purchaser will be the true and lawful owner of, and have acquired good and marketable title in and to, or a valid leasehold interest in, all of the Assets, free and clear of all Liens.

H. Intellectual Property.

- 1. Schedule 4.1(H)(1) sets forth a true and complete list of all Intellectual Property owned or used by the Seller. The Seller owns no registered Intellectual Property and, except as noted on such Schedule, the Seller licenses no Intellectual Property of any type. The Intellectual Property includes all of the Intellectual Property necessary for the conduct and operation of the Business. With respect to the Intellectual Property: (i) the Seller possesses all right, title and interest in and to such Intellectual Property, free and clear of any encumbrance, license or other restriction, as may be necessary in connection with the operation of the Seller's Business; (ii) such Intellectual Property is not subject to any outstanding injunction, judgment, order, decree, ruling or charge; (iii) no action, suit, proceeding, hearing, investigation, charge, complaint, claim or demand is pending or threatened which challenges the legality, validity, enforceability, use or ownership of such Intellectual Property; (iv) the Seller has not agreed to indemnify any person for or against any interference, infringement, misappropriation or other conflict with respect to such Intellectual Property; (v) the Seller has taken commercially reasonable steps to obtain, maintain and protect such Intellectual Property; provided that the Seller has not undertaken to register such Intellectual Property with any U.S., state or foreign patent, trademark or copyright office and may have omitted trademark or copyright designations (TM and ©) evidencing common law trademarks and statutory copyrights, respectively; and (vi) Seller has not granted any license of any kind in and to such Intellectual Property to any third party. Schedule 4.1(H)(1) accurately sets forth a list of any past, present and future royalties, fees or other liabilities to any owner or licensee of, or any other claimant to, any Intellectual Property.
- 2. Seller has not, in the conduct of its Business or its use of the Intellectual Property, interfered with, infringed upon or misappropriated any patent, copyright, trade secret or other intellectual property rights of third persons, and, except as set forth on Schedule 4.1(H)(2). Seller has never received any claim, demand or notice alleging any such interference, infringement, misappropriation or violation (including any claim that it must license or refrain from using any such rights of any third party) relating to its Business. To the Knowledge of Seller, no third party is currently or has interfered with, infringed upon, misappropriated or otherwise come into conflict with any of the Intellectual Property, or license or distribution rights of Seller with respect to or in connection with the Seller's Business as currently or previously conducted.
- 3. With respect to any of the Intellectual Property that is the subject of any royalty, license, sublicense, agreement or permission (in each case, an "IP Agreement"): (i) each such IP Agreement is legal, valid, binding, enforceable and in full force and effect; (ii) neither Seller nor, to Seller's Knowledge, any other party to the applicable IP Agreement is, in any material respect, in breach or default and no event has occurred which with notice or lapse of time would constitute a breach or default or permit termination, modification or acceleration thereunder; (iii) Seller has not received any notice that a party to any IP Agreement has repudiated any provision thereof; (iv) with respect to each sublicense, the representations and warranties set forth in clauses (i) through (iii) above are true and correct with respect to the underlying license; (v) Seller has not received any notice that the underlying Intellectual Property is subject to any outstanding injunction, judgment, order, decree, ruling or charge (other than routine maintenance fees); (vi) Seller has not received any notice that any action, suit, proceeding, hearing, investigation, charge (other than routine maintenance fees), complaint, claim or demand is pending or is threatened which challenges the legality, validity or enforceability of the underlying Intellectual Property; and (vii) Seller has not granted any sublicense or similar right with respect to any IP Agreement.

- 4. None of the processes, methodologies, trade secrets, research and development results, and other know-how included in the Intellectual Property, the value of which is contingent upon maintenance of the confidentiality thereof, has been disclosed by the Seller to any person other than employees of the Seller who are parties to confidentiality and non-disclosure agreements with the Seller listed on Schedule 4.1(H)(4).
- 5. Seller has not conveyed, licensed, transferred, given any security interest in, or otherwise transferred or encumbered any of the Intellectual Property to any party, with the exception of its senior secured lender, other than to the Purchaser pursuant to the Transfer. By means of the Transfer, Seller is conveying all of its rights and interest in and title to the Intellectual Property.
- I. <u>Litigation</u>. There are no Legal Proceedings pending or, to the Knowledge of the Seller, threatened against the Seller or any of their Affiliates and pertaining to the Business, including without limitation any proceeding that seeks to enjoin or obtain damages in respect of the consummation of the transactions contemplated by this Agreement or any other Closing Document. There is no Legal Proceeding pertaining to the Seller's Business (including employees) that the Seller, or any Affiliate of the Seller, has initiated or intends to initiate. There are no claims against Seller, or any Affiliate of the Seller, Business pending, or to the Knowledge of the Seller, threatened alleging that any Products sold are defective or fail to meet any warranties. Neither the Seller, nor any affiliate of the Seller, have incurred liability arising out of any injury to individuals as a result of the marketing, distribution or sale of any Product. The Seller has not been notified of any inquiry or investigation made in respect thereof by any Governmental Authority.
- J. <u>Regulatory and Legal Compliance</u>. Schedule 4.1(J) sets forth a true and complete list of all approvals, clearances, authorizations, licenses or registrations required by any Governmental Entity having regulatory authority or jurisdiction over the Business and the Products, including the United States Food and Drug Administration ("<u>FDA</u>"), to permit the design, development, processing, storage, labeling, marketing, promotion, use and sale of the Products. The Seller has provided to the Purchaser true and complete copies of all registrations and licenses received by the Seller from the FDA in connection with the Business and provided the Purchaser with access to all related documents and information. Except as set forth on <u>Schedule 4.1(J)</u>:

- 1. The Business and the Products are, and have been at all times, in compliance in all material respects with all applicable Laws, including, without limitation, the Public Health Services Act ("PHSA"), the relevant sections of the Federal Food, Drug, and Cosmetic Act (the "FDCA") and the Health Insurance Portability and Accountability Act of 1996, the United States National Organ Transplant Act, and 21 CFR 1271 (Human Cells, Tissues, and Cellular and Tissue Based Products).
- 2. The Seller and, to the Knowledge of the Seller, its suppliers are in compliance in all material respects with all applicable laws, statutes, rules, regulations, ordinances, standards, guidelines or orders administered, issued or enforced by the FDA or any other governmental or non-governmental entity, including, but not limited to, the American Association of Tissue Banks (AATB), relating to the methods and materials used in, and the facilities and controls used for, the design, manufacture, processing, packaging, labeling, storage, distribution and sale of the Products and all Products have been processed, manufactured, packaged, labeled, stored, handled, distributed and sold by Seller in compliance with the quality control procedures and specifications fumished by Seller to Purchaser and all applicable laws, statutes, rules, regulations, ordinances, standards, guidelines or orders administered, issued or enforced by the FDA or any other entity, including, but not limited to, the AATB, including, without limitation, current Good Tissue Practice regulations promulgated by the FDA and the United States National Organ Transplant Act and 21 CFR 1271 (Human Cells, Tissues, and Cellular and Tissue Based Products). Further, no governmental action has been taken or, to the Seller's Knowledge, is in the process of being taken, that would slow, halt or enjoin the manufacturing or processing of the Products or the Business to regulatory enforcement action.
- 3. The Seller has not received and, to the Seller's Knowledge, its suppliers have not received, from the FDA or any other Governmental Entity, and there are no facts that would furnish any reasonable basis for, any notice of adverse findings, FDA warning letters, regulatory letters, notices of violations, warning letters, Section 305 criminal proceeding notices under the FDCA or other similar communication from the FDA or other Governmental Entity. There have been no seizures conducted or threatened by the FDA or other Governmental Entity, and no recalls, market withdrawals, field notifications, notifications of misbranding or adulteration, or safety alerts have been conducted, requested or threatened by the FDA or other Governmental Entity relating to the Business or to the Products.
- 4. For each of the Products, no pre-market notification ("510(k)") or pre-market approval ("PMA") submission is required and no 510(k) or PMA submission has been filed with the FDA or any other Governmental Entity.

- 5. To the Knowledge of the Seller, there are no currently existing facts that would (i) cause the withdrawal or recall, or require suspension or additional approvals or clearances, of any Products currently sold by the Seller, (ii) require a change in the manufacturing, processing, marketing classification, labeling or intended use of any such Products or (iii) require the termination or suspension of marketing of any such Products. There is no safety, quality or efficacy issue with regard to the Products that would reasonably be expected to materially or substantially impair the ability of the Purchaser to successfully market and sell the Products. There are no orders of any Governmental Entity specific to the Seller to which the Business is subject.
- 6. None of the Products manufactured, processed, marketed, distributed or sold by the Seller has been recalled or subject to a field safety notification (whether voluntarily or otherwise), and the Seller has not received written notice (whether completed or pending) of any Legal Proceeding seeking recall, suspension or seizure of any Products.
- 7. The Seller has provided to the Purchaser true and complete copies of all adverse reaction reports (pursuant to 21 CFR 1271.350(a)), complaints, corrective actions, malfunctions, and similar communications and notices with respect to the Business. No circumstances have arisen that would require Seller to submit a Biological Product Deviation Report to the FDA.

K. Employees.

1. Employee Benefit Plans. Schedule 4.1(K)(1) sets forth a true and complete list of (i) all bonus, equity incentive, disability, deferred compensation, medical, dental and life insurance, retirement, severance and other benefit plans, programs or arrangements, that are maintained, contributed to or sponsored by the Seller for the benefit of any current or former employee, (ii) all employee manuals, handbooks and other policies and (iii) all material employment, termination, severance or other contracts, agreements or arrangements, pursuant to which Seller has any obligation with respect to any current or former employee (collectively, the "Employee Plans"). The Seller has provided to the Purchaser a true and complete copy of each Employee Plan. There exists no condition or set of conditions in connection with which the Purchaser could reasonably be expected to become subject to any liability under or with respect to any Employee Plan.

- 2. <u>Labor and Employment Matters</u>. The Seller has withheld or will timely withhold all amounts required by law or by agreement to be withheld from the wages, salaries, and other payments to the Employees (as defined below), and the Seller is not liable for any arrears of wages, compensation, Taxes, penalties or other sums for failure to comply with any of the foregoing. The Seller has paid in full or will timely pay in full to all Employees all wages, salaries, commissions, bonuses, benefits and other compensation due to or on behalf of such Employees. No amounts are owed to Dr. H. Edward Garrett for any services he may have provided to the Seller or the Business. The Seller is not a party to any labor or collective bargaining contract that pertains to any Employees. There are no organizing activities or collective bargaining arrangements that could affect the Business pending or under discussion with any labor organization or Employee. There are, and since inception, there have been, no lockouts, strikes, slowdowns or work stoppages pending or threatened by or with respect to any Employees. To Seller's Knowledge, no Employee has a current intention to resign during the twelve (12) months following the Closing. To the Specified Members' Knowledge, neither Torico Jones nor Timothy Stevens has a current intention to resign during the eighteen (18) months following Closing. The Seller is not currently a party to, and, to the Knowledge of the Seller, the Seller has not been threatened with, any Legal Proceeding by any Employee or former employee of the Seller. To Seller's Knowledge, there are no material controversies, grievances or claims pending or threatened, by any of the Seller Employees or former Seller employees or former Seller employees, which controversies have resulted, or would reasonably be expected to result, in any Legal Proceeding. No former employee of Seller possesses any confidential information pertaining to the Business or the Assets.
- 3. <u>List of Employees.</u> <u>Schedule 4.1(K)(3)</u> contains a true and complete list of the following information for each employee ("<u>Employee</u>") and each contractor: name; job title; department; manager; address; date of commencement of employment or engagement; full-time or part-time status; hourly or salaried; exempt or non-exempt status; current compensation paid or payable including target bonus levels; average number of weekly hours worked; participation in any Employee Plan; and the amount of time and US dollar value of vacation and personal leave that is accrued but unused. The Seller has not promised to any Employee any compensation (cash or equity) in excess of the amounts set forth next to each such Employee's name on <u>Schedule 4.1(K)(3)</u>. The employment of each Employee and the engagement of each contractor is terminable by the Seller at will. All Employees have been, and currently are, properly classified as either an exempt or non-exempt employee under the Fair Labor Standards Act of 1938, as amended, and under any applicable state law. Each Employee of the Seller is in compliance with all applicable visa and work permit requirements.
- L. <u>Suppliers</u>. A true and complete list of all current suppliers to the Seller, together with pricing for each component sold to the Seller by McKesson-Medical Surgical Inc., is attached hereto as <u>Schedule 4.1(L)</u>. The Seller has no Knowledge of any condition, event or occurrence that could reasonably be anticipated to materially adversely affect, after the Closing, the supply of materials or provision of services to the Business by any third party.
- M. <u>Insurance Policies</u>. <u>Schedule 4.1(M)</u> contains a true and complete list of all policies of insurance relating to the Business currently maintained by the Seller, copies of which have been provided to the Purchaser. All such insurance is in full force and effect, and no premiums thereon are due and unpaid. No notice of cancellation or termination has been received by the Seller with respect to any such policy of insurance, no claim is currently reserved or, to the Knowledge of the Seller, should be reserved under any policy of insurance, and all of the Seller's insurance is so-called "occurrence-based" insurance. The Seller does not have and has not had any insurance that is or was maintained as self-insurance, with the exception of deductibles and self-insured retentions as set forth on Schedule 4.1(M).

- N. <u>Sufficiency of Assets</u>. The Assets include (i) all of the assets, properties and rights necessary to the operation of the Business as the Business has been historically operated by the Seller; and (ii) all of the intellectual property rights used in or necessary to the production and sale of the Products. The Products are the only products produced or sold by the Seller since inception.
- O. <u>Inventory</u>. A true and complete aged list of the Inventory as at September 22, 2016 and as of the day before the Closing Date, reported separately by product line, giving model or other identifying number, is attached hereto as <u>Schedule 4.1(O)(1)</u>. The Inventory consists of solely of items that (i) are of a quantity and quality usable and saleable in the ordinary course of the Business and (ii) are not opened, damaged, obsolete, faulty, excessive in light of the reasonably anticipated needs of the Business or otherwise unmarketable. The Inventory does not consist of any items held on consignment. The Seller has no Knowledge of any condition, event or occurrence that could reasonably be anticipated to adversely affect, after the Closing, the supply of Inventory or any components thereof by any third party. A true and complete aged list of inventory of Products held by the Seller on the Premises as of the Closing Date for each of Vital Care Industries, Inc. and Allied Health Solutions, LLC is attached hereto as <u>Schedule 4.1(O)(2)</u>.
- P. <u>Customers</u>. A true and complete list of all customers of the Seller since inception, is attached hereto as <u>Schedule 4.1(P)</u>. The Seller has not received notice from, and does not have Knowledge that, any customer of the Business intends to stop purchasing, or materially reduce its volume of purchases of, Products from the Seller.
- Q. <u>Brokers' Fees</u>. The Seller has made no agreement or taken any other action which will cause the Purchaser to become obligated for any broker's or other fee or commission as a result of any of the transactions contemplated by this Agreement. Any broker's fee incurred by the Seller shall be paid by the Seller
- R. <u>Leases</u>. The lease agreements set forth on <u>Schedule 4.1(R)</u> are the only leases of real property (the "<u>Premises</u>") used in the Business and to be signed by the Purchaser (collectively, the "<u>Leases</u>"). The Seller enjoys peaceful and quiet possession of the Premises, has not subleased or granted any rights to third parties for the use of the Premises, has not received any written notice from the landlord asserting the existence of a material default or other outstanding liability under any of the Leases. The Seller is current on all rental payments under the Leases as of the Closing Date.
- S. Accounts Payable and Receivable. Set forth on Schedule 4.1(S) under the sub-heading "Payables" is a true and complete list of all payables owed by the Seller as of October 31, 2016, totaling \$277,514.66 in the aggregate (the "Payables"), that are being assumed by the Purchaser. Set forth on Schedule 4.1(S) under the sub-heading "Receivables" is a true and complete list of all receivables owing to the Seller as of October 31, 2016, totaling \$560,880.00 in the aggregate (the "Receivables"). There are no other receivables owing to the Seller as of such date. Any payables owed by the Seller that are not included on the list of Payables are considered to be Excluded Liabilities retained by the Seller. All amounts listed on such schedule as a negative Receivable balance are credits for Product returns.

T. Hazardous Materials. No Hazardous Materials are used in the Seller's Business, whether by Seller or any third party engaged by the Seller in connection with the production of any of the Products, except in accordance with applicable Laws and industry standards. To the Seller's Knowledge, no underground storage tanks and no amount of any Hazardous Material are present in, on or under any property of Seller used in the Business, including the land and the improvements, ground water and surface water thereof. The Seller is, and has at all times been, in material compliance with all applicable Environmental Laws and has obtained and is in compliance with all required environmental permits and there are no claims pursuant to any Environmental Law pending or, to the Knowledge of the Seller, threatened, against the Seller in connection with the conduct or operation of the Business or the ownership or use of the Assets.

U. Products; Product Liability.

- 1. Each of the Products (including all finished goods Inventory): (a) is, and at all times up to and including the sale thereof has been, processed, manufactured, packaged, labeled, stored, handled, distributed, shipped, marketed and promoted, and in all other respects has been, in material compliance with all applicable laws, statutes, rules, regulations, ordinances or orders administered, issued or enforced by the FDA or any other governmental entity, including, without limitation, current Good Tissue Practice regulations promulgated by the FDA, the PHSA and relevant sections of the FDCA, and the United States National Organ Transplant Act, 21 CFR 1271, Human Cells, Tissues, and Cellular and Tissue Based Products and (b) is in conformity, and at all relevant times has conformed, in all material respects to all specifications and any promises, warranties or affirmations of fact made in all regulatory filings or set forth in Approval or made on the container or label for such Product or in connection with its sale. There is no design or manufacturing defect with respect to the Products have a shelf life of five (5) years from the date of processing.
- 2. <u>Schedule 4.1(U)(2)</u> sets forth the forms of the Seller's warranties that are currently applicable to the Products. There are no existing or, to Seller's Knowledge, threatened, claims against Seller that the Products fail to meet any product warranties. The Seller has not incurred liability arising out of any injury to individuals as a result of the ownership, possession, or use of any Product and, to Seller's Knowledge, there has been no inquiry or investigation made in respect thereof by any Governmental Entity.
- V. <u>Disclosure</u>. The representations and warranties contained in this Section 4.1 and in the documents, instruments and certificates delivered by the Seller and any Specified Member pursuant to this Agreement do not contain any untrue or misleading statement of fact or omit to state any material fact necessary in order to prevent the statements and information contained therein from being false or misleading.

Section 4.2. Representations and Warranties by the Purchaser. The Purchaser represents and warrants to the Seller that:

- A. Existence and Qualification of The Purchaser; Due Execution, Etc. The Purchaser is a corporation duly organized, validly existing and in good standing under the Laws of the state of Delaware and has all requisite corporate power and authority to execute, deliver and perform this Agreement and the Closing Documents to be executed by it and to consummate the transactions contemplated hereby and thereby. The execution and delivery of this Agreement and the Closing Documents to be executed by the Purchaser and the consummation by the Purchaser of the transactions contemplated hereby and thereby have been duly authorized by all requisite corporate action and, assuming the due execution of this Agreement by the Seller, this Agreement and the Closing Documents to be executed by the Purchaser constitute valid and binding obligations of the Purchaser enforceable against it in accordance with their respective terms, subject only to applicable bankruptcy, insolvency, reorganization, moratorium or other similar Laws relating to creditors' rights generally and to general principles of equity (regardless of whether such enforcement is considered in a proceeding at law or in equity).
- B. No Violation. Neither the execution or delivery by the Purchaser of this Agreement or the Closing Documents to be executed by the Purchaser nor the consummation of the transactions contemplated hereby or thereby: (i) violates or will violate any Order applicable to the Purchaser; or (ii) results or will result in a breach of or default under the Certificate of Incorporation of the Purchaser. No consent, authorization, or approval from, or registration or filing with, any Governmental Entity or other third party (not obtained or made as of the date hereof) is required to be obtained or made by or with respect to the Purchaser in order to perform its obligations under this Agreement.

ARTICLE V Certain Covenants.

Section 5.1. <u>Insurance</u>. From and after Closing for a period of five years, the Seller shall maintain general liability and products liability insurance policies with coverage at levels the same as carried by the Seller prior to Closing, naming the Purchaser as an Additional Insured.

Section 5.2. Cooperation Regarding Taxes; Seller Tax Returns. From and after the Closing, the Seller will use best efforts to make available to the Purchaser, upon written request and with the Purchaser bearing responsibility for all of its out-of-pocket expenses therefor, the Seller's personnel or representatives under the Seller's control whose assistance or participation is reasonably required by the Purchaser in anticipation of, or preparation for, existing or future Legal Proceedings, Tax Return preparation, audits or other matters in which the Purchaser or any of its Affiliates is involved and that is related to the Seller. The Seller will reasonably cooperate with the Purchaser in the conduct of any Tax audit, claim for refund of Taxes or similar proceedings involving or otherwise relating to any of the Assets or the Seller (or the income therefrom or assets thereof). The Seller will prepare and file or cause to be prepared and filed all Tax Returns for the Seller that are required to be filed with respect to the Seller through the Closing Date. The Seller will pay or cause to be paid all Taxes required to be paid with respect to such Tax Returns. The Seller will pay all Taxes arising with respect to the Seller (or, if applicable, reimburse the Purchaser for the payment of such Taxes) attributable to taxable periods ending on or before the Closing Date or with respect to the allocable portion of any taxable period that includes but does not end on the Closing Date. For purposes of this Agreement, (i) "Tax" or "Taxes" includes all federal, state, local, foreign and other taxes, assessments, or governmental charges of any kind whatsoever including, without limitation, income, franchise, capital stock, excise, property, sales, use, service, service use, leasing, leasing use, gross receipts, value added, single business, alternative or add-on minimum, occupation, real and personal property, stamp, workers' compensation, severance, windfall profits, customs, duties, disability, registration, estimated, environmental (including Taxes under Internal Revenue Code Section 59A), transfer, payroll, withholding, employment, unemployment and social security taxes, or other taxes of the same or similar nature, together with any interest, penalties or additions thereon and estimated payments thereof, whether disputed or not, (ii) "Tax Returm" or "Tax Returms" includes all returns, reports, information returns, forms, declarations, claims for refund, statements and other documents (including any amendments thereto and including any schedule or attachment thereto) in connection with Taxes that are required to be filed with a Governmental Entity or other tax authority, or sent or provided to another party under applicable Law, and (iii) all citations of the Internal Revenue Code of 1986, as amended, or to the treasury regulations promulgated thereunder in this Agreement shall include any amendments or successor provisions thereto.

Section 5.3. Further Assurances. Each party to this Agreement agrees that at or subsequent to the Closing, upon the written request of the other party, it will promptly execute and deliver or cause to be promptly executed and delivered any further assignment, instruments of transfer, bills of sale or conveyances, and shall otherwise cooperate with the other party, all to the extent reasonably necessary or desirable to vest fully in the Purchaser all of the Seller's right, title and interest in and to the Assets or to otherwise confirm the transactions contemplated hereby, including without limitation any filings or correspondence with any regulatory agency, notified body or other person regarding Approvals, product recalls, adverse event reports and the like. To the extent that an attempted assignment or transfer of any Purchased Commitment would constitute a breach thereof, this Agreement shall not constitute an assignment or attempted assignment thereof. In such a case, the Seller shall establish with the Purchaser any back-to-back arrangement reasonably requested by the Purchaser in order to provide for the Purchaser the benefits intended to be assigned under any such Purchased Commitment. The Seller also agrees that it shall, at the reasonable request of the Purchaser, use commercially reasonable efforts to render cooperation to the Purchaser in connection with the enforcement by the Purchaser of (a) the terms of any confidentiality, non-disclosure or non-competition agreement between the Seller and any third party and (b) any provisions relating to confidentiality, non-disclosure or non-competition of harm, due to the breach or potential breach of any such agreement or provisions by a third party.

Section 5.4. Restrictive Covenants.

A. <u>Covenant Not to Compete or Disparage</u>. The Seller and each Specified Member agrees that, for a period of five (5) years commencing on the Closing Date (the "<u>Restricted Period</u>"), neither the Seller, the Specified Members nor any Affiliate of the Seller will, directly or indirectly, own, manage, operate, finance, join, or control, or participate in the ownership, management, operation, financing or control of, or be associated as a partner, lender, investor or representative in connection with, or appoint any director, manager or other representative of, any profit or not-for-profit business or enterprise that: (i) engages in any Competitive Activity (as defined on <u>Schedule 5.4(A)</u>) in the United States, Canada or Europe, (ii) interferes with the business relationship which the Purchaser has or may have with any past, existing or prospective customer or supplier of the Seller, or (iii) disparages the Purchaser, its Affiliates, the Business or the Products in any way.

Notwithstanding the foregoing, this Section 5.4(A) shall not prohibit or restrict the ability of the Seller, its Affiliates or any Specified Member to beneficially own 5% or less of the outstanding stock of any company engaging in Competitive Activity provided such stock is publicly traded on a nationally recognized securities exchange.

B. Non-Solicitation; Non-Disclosure; Non-Interference. Neither the Seller nor any Specified Member shall (a) at any time during the Restricted Period, directly or indirectly solicit, induce or attempt to induce any employees of the Seller who are employed by the Purchaser following the Closing (i) to enter the employ of the Seller or any other person or entity or (ii) to cease to work for or with the Purchaser; or (b) at any time after the Closing, directly or indirectly divulge, or permit to be divulged to others, or use in any way any Proprietary Information. As used herein, the term "Proprietary Information" shall mean the terms of this Agreement to the extent not publicly disclosed by the Purchaser and all confidential information concerning the Purchaser, the Business and the Assets, including client and customer lists, trade secrets, data, information, documents, inventions, developments, or forms owned or used by the Seller (on or prior to the Closing Date) included in the Assets transferred to the Purchaser pursuant to this Agreement, whether or not any of the foregoing is published or unpublished, protected or susceptible to protection under patent, trademark, copyright or similar laws and whether or not any party has elected to secure or attempted to secure such protection; provided, however, that the Seller may disclose any Proprietary Information solely to the extent and in the circumstances reasonably (i) needed to be disclosed to a court of competent jurisdiction in order for the Seller to pursue any claim against the Purchaser hereunder; (ii) required to be disclosed by a court of competent jurisdiction; or (iii) required by Law to be disclosed to a Governmental Entity; provided, however, that the Seller provides to the Purchaser reasonable advance opportunity to seek *in camera* or other protection with respect to such disclosure. Neither the Seller nor any Specified Member will, whether on its own behalf or on behalf of any of its Affiliates or in conjunction with any Person, directly or indire

- C. Equitable Relief. The Seller and the Specified Members each acknowledge that the restrictions contained in Section 5.4(A) and (B) are reasonable and necessary to protect the legitimate interests of the Purchaser. The Seller and the Specified Members each acknowledge that any breach of the covenants contained in Section 5.4(A) and (B) would cause an irreparable injury to the Purchaser and that damages and remedies at law for any breach of any such covenant would be inadequate. The Seller and the Specified Members each acknowledge that, in addition to any other remedies available to the Purchaser, the Purchaser shall, without the necessity of proving actual damages or posting any bond or other security, be entitled to injunctive relief and other equitable relief to prevent a breach of any such covenant.
- D. Reasonableness of Restrictions. The Seller and each Specified Member acknowledges that (i) the goodwill associated with the Business prior to the transactions contemplated by this Agreement is an integral component of the value of the Business and is reflected in the value of the consideration being paid for the Assets, and (ii) the agreements of the Seller and the Specified Members set forth herein are necessary to preserve the value of the Business following the consummation of the transactions contemplated by this Agreement and are a material inducement to the Purchaser entering into this Agreement. The Seller and the Specified Members also acknowledge that the limitations of time, geography and scope of activity agreed to in this Agreement are reasonable and necessary to protect the legitimate business interests of the Purchaser, which include the protection of (x) valuable confidential information related to the Business, (y) substantial relationships with customers of the Business and (z) customer goodwill associated with the ongoing business, because, among other things: (A) the Business is in a highly competitive industry, (B) the Seller and the Specified Members each has had access to, and, in the case of the Specified Members may continue to have access to, trade secrets and know-how of the Business and (C) the Seller and the Specified Members are expected to benefit from the transactions contemplated by this Agreement.
- E. <u>Judicial Determinations</u>. It is the desire and intent of the parties to this Agreement that the provisions of this <u>Section 5.4</u> be enforced to the fullest extent permissible under the Laws and public policies applied in each jurisdiction in which enforcement is sought. If any particular provision or portion of this <u>Section 5.4</u> shall be adjudicated to be invalid, ineffective or unenforceable, this <u>Section 5.4</u> shall be deemed automatically amended to delete therefrom such provision or portion adjudicated to be invalid, ineffective or unenforceable, such amendment to apply only with respect to the operation of such provision in the particular jurisdiction with respect to which adjudication is made.

- Section 5.5. <u>Discharge of Liabilities</u>. Without limiting the provisions of <u>Sections 3.2 or 6.1</u> hereof, the Seller acknowledges that it is retaining all Excluded Liabilities. The Seller hereby agrees and covenants that it shall, at all times following Closing, perform, pay or discharge, to the extent not theretofore performed, paid or discharged, any and all Excluded Liabilities. All excise, sales, use, transfer and all other Taxes incurred in connection with the sale of the Assets shall be borne by the Seller.
- Section 5.6. <u>Termination of Certain Commitments</u>. The Seller shall terminate those Commitments identified on <u>Schedule 4.1(E)(5)</u> immediately following Closing.
- Section 5.7. <u>Customer Transition</u>. In order to facilitate the proper payment of invoices and the submission of new orders following the Closing Date, and to provide otherwise for a smooth transition of the Seller's Business, the Purchaser and the Seller shall cooperate in the introduction of the Purchaser by Seller to customers of the Business, at the Purchaser's option, and will direct customers to submit new orders for Products and to make payments to the Purchaser for Product shipped after the Closing Date. The Seller acknowledges that it may receive payment of Receivables or accounts receivable of the Purchaser. To the extent that the Seller receives any payments that should have been paid to the Purchaser, the Seller shall promptly (and in any event no later than three (3) Business Days thereafter) pay over to the Purchaser the amount of such payments. The Purchaser acknowledges that it may receive payment of accounts receivable retained by the Seller. To the extent that the Purchaser receives any payments that should have been paid to the Seller, the Purchased shall promptly (and in any event no later than three (3) Business Days thereafter) pay over to the Seller the amount of such payments.
- Section 5.8. <u>Regulatory Transfers</u>. The Seller agrees to, and to cause its Affiliates and other business associates to, cooperate with the Purchaser following the Closing Date to promptly transfer all Approvals of the Seller to the Purchaser or its designee. To the extent such transfer is not effective as of the Closing, the Seller grants to the Purchaser the right to refer to the Seller's regulatory filings related to the production, marketing, sale and distribution of each of the Products.
- Section 5.9. <u>Transition of Employees</u>. Notwithstanding anything in this Agreement to the contrary, the Seller agrees that the Purchaser may (but shall not be required to) offer employment to any of the Seller's Employees. The Seller shall be responsible for providing termination notices to any such Employees who are offered employment and elect to be employed by the Purchaser and for otherwise effecting such termination in compliance with applicable Laws. The Seller shall satisfy any amounts owing to such Employees at the time of their termination, including, but not limited to, wages owed, any amount owing for accrued vacation, any reimbursement of expenses and any other amounts required to be paid under applicable Law; including without limitation 2016 year-end holiday bonuses, prorated through the Closing Date. Provided that the Purchaser shall pay the company portion of the premium for December 2016, the Seller shall maintain its Employee Plan known as Blue Cross Blue Shield of Illinois, account # 17048, until December 31, 2016 and no later than November 30, 2016 shall submit a cancellation notice therefor to Blue Cross Blue Shield of Illinois (with a copy to the Purchaser) to be effective as of December 31, 2016.

- Section 5.10. <u>Transfer of Tangible Assets; Books and Records</u>. The Seller shall take all commercially reasonable efforts to ensure that all tangible assets, books, records and data of the Seller, to the extent constituting Assets, are provided to the Purchaser at Closing or as quickly thereafter as is practicable. The Seller may retain a single copy of such books, records and data as reasonably required for regulatory compliance, provided that the Seller maintains the confidentiality of all such books, records and data in accordance with Section 5.4(B).
- Section 5.11. <u>Allocation of Purchase Price</u>. The Seller and the Purchaser agree to use best efforts to agree upon the allocation of the consideration payable hereunder amongst the Assets within a reasonably prompt period following the Closing, in a format consistent with <u>Schedule 5.11</u>. The Seller and the Purchaser agree that their respective tax returns (including IRS Form 8594 Asset Acquisition Statement) relating to the Transfer of the Assets hereunder will be consistent with such allocation.
- Section 5.12. <u>Public Statements</u>. The parties shall consult with each other before issuing any press release with respect to this Agreement or the transactions contemplated hereby, and no party shall issue any press release prior to obtaining the other party's prior approval, which approval shall not be unreasonably withheld, except that no such approval shall be necessary to the extent disclosure may be required by applicable Law or the rules of any stock exchange. The Seller acknowledges that the Purchaser may be required to file this Agreement and one or more of the Closing Documents with the United States Securities and Exchange Commission.
- Section 5.13. <u>Use of Seller Name</u>. The Purchaser shall be permitted to use the Seller's "Restore Flow Allografts, LLC" name following the Closing Date solely in connection with: (i) the sale of Inventory sold to the Purchaser by the Seller pursuant to this Agreement, and (ii) the sale of any Product during the period between the Closing Date and the date that the Purchaser has made all necessary filings, and has received all necessary licenses, clearances, approvals and registrations, to sell such Product under the Purchaser's name and address; provided that the Purchaser shall use diligent efforts to accomplish such activities after Closing. Following the Closing, within 10 days following notice from the Purchaser, the Seller shall change its name to a name that does not include "Restore Flow Allografts," "Restore Flow," "RFA" or any other words or phrases that are confusingly similar to the Seller's name as of the Closing Date.
- Section 5.14. <u>Product Sales/Shipments on the Closing Date.</u> The Seller shall obtain the prior written consent of the Purchaser, which shall not be unreasonably withheld, for the sale or shipment of any Product on the Closing Date.

ARTICLE VI

Indemnification; Survival of Representations, Warranties and Covenants.

- Section 6.1. <u>Indemnification by Seller</u>. The Seller hereby agrees to defend, hold harmless and indemnify the Purchaser and its Affiliates and their respective employees, officers, directors, stockholders, partners and representatives (collectively, the "<u>Purchaser Parties</u>") from and against any actual damages or losses, assessments, claims, costs and expenses (including without limitation reasonable attorneys' fees and disbursements) which arise out of or relate to:
- A. any inaccuracy in, breach of or failure to comply with, any of the representations, warranties, covenants or agreements of the Seller or any Specified Member contained in this Agreement, including without limitation in the Disclosure Schedule, or in any other Closing Document or in any certificate or other instrument or document furnished or to be furnished by the Seller or its Affiliates pursuant to this Agreement or any of the Closing Documents or in connection with the transactions contemplated hereby or thereby;
 - B. any Liabilities of the Seller or its Affiliates or the Business, other than the Assumed Liabilities;
- C. any recalls or replacements requested or required by any competent Governmental Entity or otherwise deemed appropriate by mutual agreement of the Seller and the Purchaser related to any Product produced, sold or distributed prior to the Closing;
- D. any claim, demand, action or proceeding initiated by any third party based upon infringement of a patent, trademark, copyright or trade secret, or similar intellectual property rights as a result of Seller's use or practice of the Intellectual Property in the conduct of the Seller's Business;
- E. any fraudulent act or omission or willful misconduct of the Seller or its employees, agents or representatives in the performance of this Agreement; and
- F. without limiting the generality of the preceding clauses, any Taxes attributable to the Seller's Business for all periods prior to Closing, and all other Taxes of the Seller or its Affiliates, in each case regardless of whether such losses, assessments, Liabilities, claims, damages, costs and expenses, or the facts or circumstances relating thereto, were disclosed hereunder or in the Disclosure Schedule or otherwise.

All such losses, assessments, liabilities, claims, damages, costs and expenses so arising out of or relating to any of the foregoing clauses (A) through (F), inclusive, of this <u>Section 6.1</u>, or the matters described therein, are referred to hereinafter as the "<u>Purchaser's Losses</u>."

- Section 6.2. <u>Indemnification by the Purchaser</u>. The Purchaser hereby agrees to defend, hold harmless and indemnify the Seller and its Affiliates and their respective employees, officers, directors, stockholders, partners and representatives ("<u>Seller Parties</u>") from and against any losses, assessments, Liabilities, claims, damages, costs and expenses (including without limitation reasonable attorneys' fees and disbursements) to the extent arising out of:
- A. any inaccuracy in, breach of or failure to comply with, any of the representations, warranties, covenants or agreements of the Purchaser contained in this Agreement or in any other Closing Document or in any certificate or other instrument or document furnished or to be furnished by the Seller pursuant to this Agreement or any of the Closing Documents or in connection with the transactions contemplated hereby or thereby; or
- B. the Purchaser's failure, following the Closing, to perform, pay or discharge in accordance with their respective terms, the Assumed Liabilities (collectively, the "Seller's Losses").

Section 6.3. Survival of Representations, Warranties and Covenants; Certain Limitations,

- A. <u>Survival</u>. The representations and warranties contained in this Agreement shall survive the Closing for a period of 24 months following the Closing Date, except with respect to (i) the representations and warranties set forth in <u>Sections 4.1(A)</u> (Corporate Existence and Qualification; Due Execution; Etc.), <u>4.1(G)</u> (Title to Assets), and <u>4.1(Q)</u> (Broker's Fees), which shall survive indefinitely, and (ii) the representations and warranties set forth in <u>Section 4.1(K)(1)</u> (Employee Benefit Plans), which shall survive until 60 days following the expiration of the applicable statute of limitations. Notwithstanding the foregoing, any claims asserted in good faith with reasonable specificity (to the extent known at such time) and in writing by notice from the non-breaching party to the breaching party prior to the expiration date of the applicable survival period shall not thereafter be barred by the expiration of such survival period and such claims shall survive until finally resolved. The covenants and other agreements contained in this Agreement which contemplate performance following the Closing shall survive the Closing indefinitely.
- B. <u>Basket</u>. The Purchaser Parties shall not be entitled to recover any of Purchaser's Losses pursuant to Section 6.1 unless and until the Purchaser Parties' aggregate claims therefor exceed \$40,000, at which point the Indemnitor shall be obligated to reimburse the Indemnitee for all of the Purchaser's Losses less a one-time deduction of \$10,000; provided, however, that this sentence shall not apply to (and be disregarded in its entirety with respect to) any breach by the Seller of its obligations under Section 3.2, Section 5.5 or Section 5.7 of this Agreement. The Seller Parties shall not be entitled to recover any of Seller's Losses pursuant to Section 6.2 unless and until the Seller Parties' aggregate claims therefor exceed \$40,000 at which point the Indemnitor shall be obligated to reimburse the Indemnitee for all of the Seller's Losses less a one-time deduction of \$10,000; provided, however, that this sentence shall not apply to (and be disregarded in its entirety with respect to) any breach by the Purchaser of its obligations under Section 3.1 or Section 5.7 of this Agreement.
- C. <u>Cap</u>. The aggregate amount of all Losses for which the Seller shall be liable pursuant to Section 6.1 shall not exceed 100% of the Purchase Price, and the aggregate amount of all Losses for which the Purchaser shall be liable pursuant to Section 6.2 shall not exceed 100% of the Purchase Price.

- D. Adjustment for Insurance Proceeds. Payments by an Indemnitor (as defined in Section 6.4) pursuant to Section 6.1 or Section 6.2 in respect of any Losses shall be limited to the amount of any liability or damage that remains after deducting therefrom any insurance proceeds and any indemnity, contribution or other similar payment received by the Indemnitee in respect of any such claim.
- E. <u>Adjustment for Taxes</u>. Payments by an Indemnitor (as defined in Section 6.4) pursuant to Section 6.1 or Section 6.2 in respect of any Losses shall be reduced by an amount equal to any Tax benefit recognized as a result of such Losses by the Indemnitee.
- F. <u>Duty to Mitigate</u>. Each Indemnitee shall take, and cause its Affiliates to take, commercially reasonable steps to mitigate any Losses upon becoming aware of any event or circumstance that would be reasonably expected to, or does, give rise thereto, including incurring costs only to the extent reasonably necessary to remedy the breach that gives rise to such Losses.
- G. <u>Limitations</u>. In no event shall any Indemnitor be liable to any Indemnitee for any punitive, remote or speculative Losses, or Losses based on a multiple of damages (in all cases, other than indemnification for amounts paid or payable to third parties in respect of any third party claim for which indemnification hereunder is otherwise required). Losses must be the probable and reasonably foreseeable result of the applicable breach, event or other circumstance giving rise to an indemnification claim in order for the Losses to be recoverable under Section 6.1 or Section 6.2. None of the limitations of this Article 6 shall apply in the case of intentional misrepresentation, intentional breach of a covenant or fraud.
- H. Anti-Sandbagging. The Seller shall not be liable under Section 6.1 for any Losses due to any inaccuracy in or breach of any of the representations or warranties contained in Article 4 of this Agreement if the Purchaser had knowledge of such inaccuracy or breach prior to the Closing, where such knowledge means the actual knowledge of David B. Roberts and Laurie A. Churchill after reasonable inquiry.
- I. <u>First Recourse</u>. In the event that the Purchaser wishes to pursue any remedy at law against a Specified Member, the Purchaser shall not do so until it has first taken all commercially reasonable steps to pursue such remedy against the Seller using the indemnification procedures set forth in this Article 6 (the "<u>First Recourse</u>"). For the avoidance of doubt, the Purchaser may pursue any equitable remedy under Section 5.4(C) without first having to pursue the First Recourse.

Section 6.4. Procedures.

- A. In the event that any Legal Proceeding shall be threatened or instituted in respect to which indemnification may be sought under the provisions of this Article 6, the party seeking indemnification ("Indemnitee") shall, reasonably promptly after acquiring actual knowledge of such threatened or instituted Legal Proceeding, cause written notice in reasonable detail of such threatened or instituted Legal Proceeding covered by this indemnification, to be forwarded to the other party from which indemnification is being sought ("Indemnitor"); provided, however, that the failure to provide such notice as of any particular date as aforesaid will not affect any rights to indemnification hereunder, except to the extent, and only to such extent, that such failure to provide such notice actually and materially prejudices the Indemnitor's ability to adequately defend such Legal Proceeding. In the case of any Loss not involving a Legal Proceeding, the Indemnitee shall, reasonably promptly after acquiring actual knowledge of such Loss, cause written notice in reasonable detail of such Loss covered by this indemnification, to be forwarded to the Indemnitor; provided, however, that the failure to provide such notice as of any particular date as aforesaid will not affect any rights to indemnification hereunder.
- B. In the event of the initiation of any Legal Proceeding against an Indemnitee by a third party, the Indemnitor shall have the right after the receipt of the notice described in Section 6.4(A), at its expense, to appoint counsel to represent Indemnitee, which shall be reasonably satisfactory to the Indemnitee, and (subject to Section 6.4(C)) to defend against, negotiate, settle or otherwise deal with any Legal Proceeding or demand that relates to any Purchaser's Losses or Seller's Losses, as the case may be, indemnified against hereunder, and, in such event, the Indemnitee will reasonably cooperate with the Indemnitor and its representatives in connection with such defense, negotiation, settlement or dealings (and the Indemnitee's costs and expenses arising therefrom or relating thereto shall constitute Purchaser's Losses, if the Indemnitee is the Purchaser, or Seller's Losses, if the Indemnitee is the Seller); provided, however, that the Indemnitor shall actively and diligently defend the Indemnitee; and provided further that the Indemnitee may directly participate in any such Legal Proceeding so defended with counsel of its choice at its own expense. If the Indemnitor fails to take reasonable steps necessary to defend diligently such third party claim within 10 Business Days after receiving written notice from the Indemnitee that the Indemnitee reasonably believes the Indemnitor has failed to take such steps or if the Indemnitor has not undertaken fully to indemnify the Indemnitee in respect of all such Purchaser's or Seller's Losses, as the case may be, relating to the matter and as required hereunder, the Indemnitee may assume its own defense, and, in such event (a) the Indemnitor will be liable for all Purchaser's or Seller's Losses, as the case may be, reasonably paid or incurred in connection therewith, and (b) the Indemnitor shall, in any case, reasonably cooperate, at its own expense, with the Indemnitee and its representatives in connection with such defense.
- C. Without the prior written consent of the Indemnitee, which shall not be unreasonably withheld, the Indemnitor will not enter into any settlement of any third party claim that would lead to liability or create any financial or other obligation on the part of the Indemnitee for which the Indemnitee is not entitled to indemnification hereunder or which would otherwise adversely affect the Indemnitee, the Assets or the Business.

- D. An Indemnitee shall use commercially reasonable efforts to pursue and collect any amounts payable under insurance policies on account of Purchaser's Losses (if the Indemnitee is the Purchaser) or Seller's Losses (if the Indemnitee is the Seller), but only if doing so will not result in (a) an increase in premiums due then or in the future to procure comparable insurance or an increase in deductibles; or (b) a decrease in the levels of insurance or a change in the risks insured against; or (c) prejudice to the Indemnitee's claims or rights to indemnification hereunder.
- E. After any final judgment or award shall have been rendered by a Governmental Entity of competent jurisdiction, or a settlement shall have been consummated, or the Indemnitee and the Indemnitor shall have arrived at a mutual agreement with respect to each separate matter alleged to be indemnified by the Indemnitor hereunder, the Indemnitee shall forward to the Indemnitor notice of any sums due and owing by it with respect to such matter, and the Indemnitor shall pay all of the sums so owing to the Indemnitee by wire transfer or certified or bank cashier's check within 10 Business Days after the date of such notice. Any and all Purchaser's Losses or Seller's Losses, other than those described in the preceding sentence (including Purchaser's Losses or Seller's Losses incurred in the absence of any threatened or pending Legal Proceeding, or Purchaser's Losses or Seller's Losses incurred after any such Legal Proceeding has been threatened or instituted but prior to the rendering of any final judgment or award in connection therewith), shall be paid by the Indemnitor on a current basis, and, without limiting the generality of the foregoing, the Indemnitee shall have the right to invoice the Indemnitor for such Purchaser's Losses or Seller's Losses, as the case may be, which are described or listed in any such invoice shall be paid to the Indemnitee, by wire transfer or certified or bank cashier's check, within 10 Business Days after the date of such invoice. Notwithstanding the foregoing, the Purchaser's claims for indemnification pursuant to this Article 6 shall be satisfied first from the Holdback Amount, second from any other amounts that may be owing from the Purchaser to the Seller under Section 2.2(c) or (d), and then, to the extent those funds are insufficient to pay all such claims, directly by the Seller pursuant to this Section 6.4.
- F. To the maximum extent permitted by law, it is the intention of the parties to treat any indemnity payment made under this Agreement as an adjustment to the purchase price.
 - G. This Article 6 shall survive the Closing and shall thereafter remain in full force and effect.

ARTICLE VII Miscellaneous.

- Section 7.1. Entire Agreement. This Agreement (including the Disclosure Schedule) together with all other Closing Documents (i) supersedes any other prior or contemporaneous agreement, understanding, promise, representation or express or implied commitment or obligation, whether written or oral, that may have been made or entered into by any party or any of their respective Affiliates (or by any director, officer or representative thereof) with respect to the subject matter hereof and (ii) constitutes the entire agreement of the parties hereto with respect to the matters provided for herein. Any other agreements, promises, representations, or assurances made by either party to this Agreement or entered into by the parties hereto on or before the date of this Agreement, whether oral or written, relating to the subject matter of this Agreement are of no force or effect.
- Section 7.2. <u>Amendments</u>. No amendment, modification or alteration of the terms or provisions of this Agreement shall be binding unless the same shall be in writing and duly executed by the Purchaser, the Seller and the Specified Members.
- Section 7.3. Successors and Assigns. This Agreement shall inure to the benefit of and be binding upon the parties hereto, and their respective successors and permitted assigns. This Agreement is freely assignable by the Purchaser but may not be assigned by the Seller or the Specified Members, including without limitation by operation of law, without the prior written consent of the Purchaser; provided, however, that any such assignment by the Purchaser shall not relieve it of its obligations hereunder. For purposes of this Section 7.3, the term "assignment" shall include the consolidation or merger of a party with and into a third party or the sale of all or substantially all of the assets or business of a party. Any attempted assignment in violation of this Section 7.3 shall be null and void.
- Section 7.4. <u>Counterparts</u>. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original for all purposes and all of which together shall constitute one and the same instrument.
- Section 7.5. <u>Headings and Section References</u>. The headings of the sections and paragraphs of this Agreement are included for convenience only and are not intended to be a part of, or to affect the meaning or interpretation of, this Agreement. All section references herein, unless otherwise clearly indicated, are to sections within this Agreement.
- Section 7.6. No Other Warranties, Representations, Covenants or Duties. Except as expressly provided in this Agreement, the parties disclaim any express or implied warranties, representations, covenants or duties in connection herewith.
- Section 7.7. Waiver. No failure or delay by either the Purchaser or the Seller in exercising any right, power or privilege hereunder shall operate as a waiver thereof; nor shall any single or partial exercise thereof preclude any other or further exercise thereof or the exercise of any other right, power or privilege. The rights and remedies herein provided are cumulative and not exclusive of any rights or remedies otherwise provided by law.
- Section 7.8. Expenses. The Seller and the Purchaser shall each pay all of their own respective costs and expenses incurred in connection with this Agreement and the transactions contemplated hereby.

Section 7.9. Notices. Any notice, request, instruction or other document to be given under this Agreement by any party hereto to any other party shall be in writing and delivered by email <u>and</u> delivered personally, dispatched by facsimile transmission or sent by a nationally recognized overnight courier service or by registered or certified mail, postage prepaid:

If to the Seller, at the following address:

Restore Flow Allografts, LLC c/o Stanton B. Miller and David R. Brown Nixon Peabody LLP 70 W. Madison St., Suite 3500 Chicago, Illinois 60602 Facsimile: 312-977-4405

Email: <u>sbmiller@nixonpeabody.com</u> and drbrown@nixonpeabody.com

If to the Specified Members, at the following addresses:

c/o Stanton B. Miller and David R. Brown Nixon Peabody LLP 70 W. Madison St., Suite 3500 Chicago, Illinois 60602 Facsimile: 312-977-4405

Email: sbmiller@nixonpeabody.com and drbrown@nixonpeabody.com

If to the Purchaser, at the following address:

63 Second Avenue Burlington, Massachusetts 01803 Attn.: Legal Department Facsimile: 781-425-5049

Email: legal@lemaitre.com

or at such other address for a party or as shall be specified by like notice. Any notice that is delivered personally in the manner provided herein shall be deemed to have been duly given to the person or entity to which it is directed upon actual receipt by such party (or its agent for notices hereunder). Any notice by facsimile transmission shall be deemed to have been duly given to the person or entity to which it is addressed upon transmission and confirmation of receipt. Any notice that is addressed as provided herein and mailed by registered or certified mail shall be conclusively presumed to have been duly given to the person or entity to which it is addressed at the close of business, local time of such party, on the third calendar day after the day it is so placed in the mail. Any notice that is addressed as provided herein and sent by a nationally recognized overnight courier service shall be conclusively presumed to have been duly given to the person or entity to which it is addressed at the close of business, local time of such person or entity, on the next Business Day

-30-

- Section 7.10. Governing Law. This Agreement and the legal relations among the parties hereto shall be governed and construed in accordance with the substantive Laws of the State of Delaware, without giving effect to the principles of conflict of laws thereof.
- Section 7.11. <u>Severability</u>. If any provisions hereof shall be held by any court of competent jurisdiction to be illegal, void or unenforceable, such provisions shall be of no force and effect, but the illegality or unenforceability shall have no effect upon, and shall not impair the enforceability of, any other provision of this Agreement.
- Section 7.12. <u>Rights of Third Parties</u>. Nothing expressed or implied in this Agreement is intended or will be construed to confer upon or give any person or entity other than the parties hereto and their respective successors and permitted assigns any rights or remedies under or by reason of this Agreement or any transaction contemplated hereby.
- Section 7.13. <u>Consent to Jurisdiction</u>. Each party agrees that, in the event such party elects to initiate litigation against another party, such party shall, and may only, file such litigation in the state or federal courts of Delaware. Each party hereby expressly and irrevocably waives any claim or defense in any action or proceeding brought in said jurisdiction and courts based on any alleged lack of personal jurisdiction, improper venue, forum non conveniens or any similar basis.
- Section 7.14. <u>Kallen</u>. Each of the parties hereto agrees that Kallen shall have no personal liability of any kind or nature to the Purchaser, or to anyone else, in connection with any representations and warranties made by him in Article 4 of this Agreement, including but not limited to any claim that any of such representation and warranties are inaccurate or false.

Section 7.15. Certain Definitions and Interpretive Matters.

A. Certain Definitions. Unless the context otherwise requires:

"Affiliate" means, with respect to any person, a person that directly, or indirectly through one or more intermediaries, controls, or is controlled by, or is under common control with, that other person, where "control" means, for purposes of the definition of "Affiliate", having direct or indirect power to direct or cause the direction of the management and policies of a person, whether through the ownership of voting securities, by contract, or otherwise.

"Business" means the development, production, processing, marketing, storage, distribution and sale of the Products.

"Business Day" means each day other than a Saturday, Sunday or a day upon which national banks in Boston, Massachusetts are closed for ordinary domestic banking business.

"Cause" means one or more of the following: (i) the employee's commission of a felony or any crime or criminal offense involving the theft or misappropriation of monies or other property or moral turpitude; (ii) the employee's commission of a dishonest or fraudulent act, embezzlement, misappropriation or conversion of property; (iii) the employee's breach in any material respect of any of the employee's fiduciary duties or duty of loyalty to the Purchaser; (iv) the employee's material breach of his employment agreement, his employee obligations agreement or any other agreement to which the employee and the Purchaser are parties; (v) the employee's illegal possession of a controlled substance, use of illegal drugs or repetitive abuse of alcohol or other behavior which materially interferes with the performance of his duties to the Purchaser or which compromises the integrity and reputation of the employee or the Purchaser; (vi) the employee's failure to substantially perform material duties as reasonably directed by the Purchaser in accordance with his employment agreement continuing beyond thirty (30) days' prior written notice of such failure; (vii) the employee's willful act or omission aiding or abetting a competitor of the Purchaser; (viii) the employee's willful failure to comply in all material respects with the Purchaser's material policies, procedures and guidelines, including corporate governance and human relations policies, and applicable laws with respect to the Purchaser's business operations; and/or (ix) the employee's gross negligence or willful misconduct with respect to the Purchaser.

"Disclosure Schedule" or "Schedules" means the Schedules attached hereto, which Schedules are incorporated herein and made a part hereof fully as if the same were herein set forth in their entirety.

"Environmental Law" means any and all applicable federal, state, county or local law, ordinance or regulation relating to the generation, discharge, release, containment, storage, transportation, disposal, assessment or cleanup of Hazardous Materials or other contaminants or similar materials, including without limitation the following: (1) the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. §9601 et seq.; (2) the Toxic Substances Control Act, 15 U.S.C. §2101 et seq.; (3) the Federal Insecticide, Fungicide and Rodenticide Act, 7 U.S.C. §136; (4) the Hazardous Materials Transportation Act, 49 U.S.C. §1801 to 1812; (5) the Federal Water Pollution Control Act, 32 U.S.C. §1251 et seq.; (6) the Federal Solid Waste Disposal Act; (7) the Federal Clean Air Act, 42 U.S.C. §1857 et seq.; and (8) any other federal, state, county, or local statutes or implementing regulations (or any other statutes or implementing regulations of any other Governmental Entity) relating to, regulating, or having jurisdiction over, any environmental contamination, Hazardous Material, or release or threat of release of Hazardous Material.

"GAAP" shall mean United States Generally Accepted Accounting Principles, consistently applied, and each accounting term not otherwise defined in this Agreement has the meaning assigned to it in accordance with GAAP.

"Good Reason" has the meaning set forth in the relevant individual's employment agreement with the Purchaser, or if none is there provided, then the occurrence of any of the following, in each case during the relevant period without the individual's written consent: (i) a material reduction (but not change) in the employee's duties or position; or (ii) a material reduction in the employee's base salary, target bonus opportunities or employee benefits to which the employee has subscribed, excluding any voluntary reduction(s) at the request of the employee or any reduction(s) applicable to similarly situated employees of the Purchaser.

"Governmental Entity" means any local, county, state, district, provincial, national or other government and any agencies, departments or instrumentalities thereof, and specifically includes any judicial or administrative body or tribunal.

"Hazardous Material" means any pollutant, toxic substance, hazardous waste, hazardous material, hazardous substance or oil or other petroleum product, as any of the foregoing may be defined in any Environmental Law.

"Knowledge" means the actual knowledge of any of Deborah Dunston, Torico Jones, Robert Kallen and Timothy Stevens, after reasonable inquiry.

"Laws" means any United States or non-United States national, state, county or local statute, law, ordinance, rule, regulation, order, judgment, standard, guideline or ruling.

"Legal Proceedings" means any claim, action, suit, arbitration or judicial, administrative, investigative or other proceeding, brought by, before or under the jurisdiction of any Governmental Entity, including without limitation, lawsuits brought by third parties.

"Material Adverse Effect" means any fact, circumstance, event, change or effect that is, or would reasonably be expected to be, materially adverse to the Assets, the Business or the financial condition, the results of operations or prospects of the Seller or the Business; provided, however, that "Material Adverse Effect" shall not include any event, occurrence, fact, condition or change, directly or indirectly, arising out of or attributable to: (i) general economic or political conditions; (ii) conditions generally affecting the industries in which the Business operates that do not have a disproportionately negative impact on the Business; or (iii) any changes in accounting rules (including GAAP) or the enforcement, implementation or interpretation thereof.

Finally, the word "or" is disjunctive but not necessarily exclusive.

B. <u>Interpretive Matters</u>. No provision of this Agreement will be interpreted in favor of, or against, any of the parties hereto by reason of the extent to which any such party or its counsel participated in the drafting thereof or by reason of the extent to which any such provision is inconsistent with any prior draft hereof or thereof.

[SIGNATURE PAGE FOLLOWS]

PURCHASER:	LEMAITRE VASCULAR, INC.
	By: /s/ David B. Roberts Name: David B. Roberts Title: President
SELLER:	RESTORE FLOW ALLOGRAFTS, LLC
	By: /s/ Torico Jones Name: Torico Jones Title: President
SPECIFIED MEMBERS:	TORICO JONES
	/s/ Torico Jones
	TIMOTHY STEVENS
	/s/ Timothy Stevens
	ROBERT KALLEN
	/s/ Robert Kallen

IN WITNESS WHEREOF, the Purchaser and the Seller have caused this Agreement to be executed by their duly authorized respective officers, all as of

the date first written above.

The schedules have been omitted pursuant to Item 601(b)(2) of Regulation S-K. Copies of these schedules will be provided to the Securities and Exchange Commission upon request. A list of those schedules appears below:

Schedules:

1.2(B)(4)	Other Excluded Assets
2.2	Net Sales
2.3	Closing Documents
4.1(B)	Required Consents, Authorizations, Approvals, Registration Filings
4.1(C)	Financial Statements
4.1(D)	Ordinary Course Exceptions
4.1(E)(1)	Commitments
4.1(E)(3)	Approvals
4.1(E)(4)	Certain Commitments
4.1(E)(5)	Certain Commitments
4.1(F)	Assets
4.1(H)	Intellectual Property
4.1(J)	Approvals and Licenses
4.1(K)(1)	Employee Plans
4.1(K)(3)	List of Employees
4.1(L)	List of Suppliers
4.1(M)	Insurance Policies
4.1(O)	Inventory
4.1(P)	Customers
4.1(R)	Leases
4.1(S)	Accounts Payable and Accounts Receivable
4.1(U)	Product Warranties
5.2	Competitive Activity
5.11	Purchase Price Allocation

SUBSIDIARIES OF THE REGISTRANT

The following is a list of our subsidiaries:

Name	State or Other Jurisdiction of Incorporation	Name Under Which Does Business
LeMaitre Vascular GmbH	Germany	Same
LeMaitre Vascular GK	Japan	Same
LeMaitre Acquisition LLC	Delaware	Same
LeMaitre Vascular SAS	France	Same
LeMaitre Vascular Spain, S.L.	Spain	Same
LeMaitre Vascular S.r.l.	Italy	Same
Vascutech Acquisition LLC	Delaware	Same
LeMaitre Vascular ULC	Canada	Same
LeMaitre Vascular Switzerland GmbH	Switzerland	Same
LeMaitre Vascular AS	Norway	Same
LeMaitre Vascular Pty Ltd	Australia	Same
LeMaitre Medical Technology (Shanghai) Co., Ltd.	China	Same
LeMaitre Vascular, Ltd	United Kingdom	Same
Bio Nova Holdings Pty Ltd	Australia	Same
Bio Nova International Pty Ltd	Australia	Same

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We have issued our reports dated March 8, 2017, with the respect to the consolidated financial statements and internal control over financial reporting included in the Annual Report of LeMaitre Vascular, Inc. on Form 10-K for the year ended December 31, 2016. We consent to the incorporation by reference of the said reports in the Registration Statements of LeMaitre Vascular, Inc. on Form S-3 (File No. 333-195658) and Forms S-8 (File No. 333-138181, File No. 333-161361, File No. 333-174129, and File No. 333-205360).

/s/ GRANT THORNTON LLP Boston, Massachusetts March 8, 2017

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in the Registration Statements (Form S-3, No. 333-195658, and Form S-8, Nos. 333-138181, 333-161361, 333-174129, and 333-205360) of our report dated March 18, 2015, with respect to the consolidated financial statements of LeMaitre Vascular, Inc. for the year ended December 31, 2014 included in this Annual Report (Form 10-K) for the year ended December 31, 2016.

/s/ Ernst & Young LLP

Boston, Massachusetts March 8, 2017

CERTIFICATIONS

- I, George W. LeMaitre, certify that:
 - 1. I have reviewed this Annual Report on Form 10-K of LeMaitre Vascular, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ GEORGE W. LEMAITRE

George W. LeMaitre

Chairman and Chief Executive Officer

Date: March 8, 2017

CERTIFICATIONS

- I, Joseph P. Pellegrino, Jr., certify that:
 - 1. I have reviewed this Annual Report on Form 10-K of LeMaitre Vascular, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ JOSEPH P. PELLEGRINO, JR.

Joseph P. Pellegrino, Jr.

Chief Financial Officer

Date: March 8, 2017

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of LeMaitre Vascular, Inc. (the "Company") on Form 10-K for the period ended December 31, 2016, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, George W. LeMaitre, Chairman and Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

This certification is being provided pursuant to 18 U.S.C. § 1350 and is not deemed to be a part of the Report, nor is it to deemed to be "filed" for any purpose whatsoever.

/s/ GEORGE W. LEMAITRE

George W. LeMaitre Chairman and Chief Executive Officer

March 8, 2017

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of LeMaitre Vascular, Inc. (the "Company") on Form 10-K for the period ended December 31, 2016, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Joseph P. Pellegrino, Jr., Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

This certification is being provided pursuant to 18 U.S.C. § 1350 and is not deemed to be a part of the Report, nor is it to deemed to be "filed" for any purpose whatsoever.

/s/ JOSEPH P. PELLEGRINO, JR.

Joseph P. Pellegrino, Jr. Chief Financial Officer

March 8, 2017