

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**FORM 10-K**

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE  
SECURITIES EXCHANGE ACT OF 1934  
For the fiscal year ended December 31, 2022

or

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)

Delaware

(State or other jurisdiction of incorporation or organization)

04-2825458

(I.R.S. Employer Identification No.)

63 Second Avenue, Burlington, Massachusetts

(Address of principal executive offices)

01803

(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	Trading symbol	Name of exchange on which registered
Common stock, \$0.01 par value per share	LMAT	The Nasdaq Global Market

**Securities registered pursuant to 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:  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:  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 every Interactive Data File required to be submitted 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 such files). Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or emerging growth company. See the definitions of “large accelerated filer,” “accelerated filer,” “smaller reporting company” and “emerging growth company” in Rule 12b-2 of the Exchange Act.

Large accelerated filer  Accelerated filer  Non-accelerated filer   
Smaller reporting company  Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by checkmark whether the registrant has filed a report on and attestation to its management’s assessment of the effectiveness of its internal control over financial reporting under section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant’s executive officers during the relevant recovery period pursuant to §240.10D-1(b).

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes:  No:

The aggregate market value of the voting and non-voting common stock held by non-affiliates of the registrant was \$879,119,100 computed by reference to the last reported sale price of \$45.55 per share as reported by The Nasdaq Global Market as of the last business day of the registrant’s most recently completed second fiscal quarter.

At February 24, 2023, the registrant had 22,097,304 shares of common stock, par value \$0.01 per share, outstanding.

#### **DOCUMENTS INCORPORATED BY REFERENCE**

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**  
**2022 ANNUAL REPORT ON FORM 10-K**  
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## PART I

### SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K contains forward-looking statements (within the meaning of the U.S. Private Securities Litigation Reform Act of 1995) that involve substantial risks and uncertainties, particularly risks related to the regulatory environment, our common stock, fluctuations in our quarterly and annual results, our ability to successfully integrate acquisitions into our business, and risks related to our business and industry generally, such as risks inherent in the process of developing and commercializing products and services that are safe and effective for use in the peripheral vascular disease market. All statements, other than statements of historical facts, included in this report 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 expectations prove incorrect, our actual results, performance, or financial condition may vary materially and adversely from those anticipated, estimated, or expected. No forward-looking statement can be guaranteed and actual results may vary materially from those projected in the forward-looking statements. We intend to take advantage of the Safe Harbor provisions of the Private Securities Litigation Reform Act of 1995 regarding our forward-looking statements, and are including this sentence for the express purpose of enabling us to use the protections of the safe harbor with respect to all forward-looking statements. These risks and uncertainties include, but are not limited to: the risk of significant fluctuations in our quarterly and annual results due to numerous factors; the risk that assumptions about the market for the Company’s products and the productivity of the Company’s direct sales force and distributors may not be correct; the risk that we may not be able to maintain our recent levels of profitability; the status of our global regulatory approvals and compliance with regulatory requirements to market and sell our products both in the US and outside of the US; the risk that the Company may not realize the anticipated benefits of its strategic activities; risks related to the integration of acquisition targets; the acceleration or deceleration of product growth rates; risks related to product demand and market acceptance of the Company’s products and pricing; the risk that a recall of our products could result in significant costs or negative publicity; and the risk that the Company is not successful in transitioning to a direct-selling model in new territories.

*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, Artegraft, Cardial, CardioCel, Dialine, Eze-Sit, Glow ‘N Tell, LeverEdge, LifeSpan, Omniflow, ProCol, Pruitt, Pruitt F3, Pruitt-Inahara, RestoreFlow, Syntel, TRIVEX, TufTex, VasculCel, VasculTape, Wovex and XenoSure are registered trademarks of LeMaitre Vascular or one of its subsidiaries, and AlboSure, Chevalier, DuraSure, Flexcel, Periscope, and PeriVu 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. Solely for convenience, trademarks and trade names referred to in this report may appear without the ® or TM symbols.*

## Item 1. Business

### Overview

LeMaitre Vascular is a global provider of medical devices and human tissue cryopreservation services largely used in the treatment of peripheral vascular disease, end-stage renal disease, and to a lesser extent cardiovascular disease. We develop, manufacture, and market vascular devices to address the needs of vascular surgeons and, to a lesser degree, other specialties such as cardiac surgeons, general surgeons and neurosurgeons. Our diversified portfolio of devices consists of brand name products that are used in arteries and veins and are well known to vascular surgeons. Our principal product offerings are sold globally, primarily in the United States, Europe, Canada and Asia Pacific. We estimate that the annual worldwide market for peripheral vascular devices exceeds \$5 billion, within which we estimate that the market for our products is approximately \$750 million.

We sell our products and services primarily through a direct sales force. As of December 31, 2022, our sales force was comprised of 131 sales representatives in North America, Europe and Asia Pacific, including two export managers. Our worldwide headquarters is located in Burlington, Massachusetts, and we also have North American sales offices in Chandler, Arizona and Vaughan, Canada. Our European headquarters is located in Sulzbach, Germany, and we also have European sales offices in Milan, Italy; Madrid, Spain; and Hereford, England. Our Asia Pacific headquarters is located in Singapore, and we also have Asia-Pacific sales offices in Tokyo, Japan; Shanghai, China; Kensington, Australia; and Seoul, Korea. During the years ended December 31, 2022 and 2021, approximately 94% of our net sales were generated in territories in which we employ direct sales representatives. We also sell our products in other countries through distributors.

Since March 2020, the COVID-19 pandemic has significantly impacted the markets for our products as well as our business. In response to COVID-19, many hospitals limited elective procedures in response to the onset of the pandemic and then periodically when infection rates have increased. Many of our devices are used in elective procedures. Additionally, our sales representatives' access to hospitals and surgeons has periodically been restricted by hospitals or local governments. More recently, however, in many geographies we have seen restrictions eased. Since 2020, these dynamics have resulted in variable and unpredictable sales.

### **The Peripheral Vascular Disease Market**

Based on industry statistics, we estimate that peripheral vascular disease affects more than 200 million people worldwide and that the annual worldwide market for all peripheral vascular devices exceeds \$5 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. 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. We believe that our strong brands, established sales force, suite of peripheral vascular device offerings, and broad network of vascular surgeon customers position us to capture an increasing share of this market.

Vascular surgeons treat peripheral vascular disease and perform vascular procedures associated with other diseases, such as end-stage renal disease. We estimate that there are more than 21,000 vascular surgeons worldwide. In contrast to other specialists, such as interventional cardiologists and interventional radiologists, vascular surgeons perform both open vascular surgeries and endovascular procedures. 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. We estimate that in 2022, over 95% of our net sales were from devices used in open surgical procedures.

### **Our Business Strategies**

We have grown our business by using a simple 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, to a lesser extent, developing complementary devices. We have used acquisitions as a primary means of further penetrating the peripheral vascular device market, and we expect to continue to pursue this strategy in the future. We currently manufacture most of our products in our Burlington, Massachusetts headquarters.

- **Focused call point.** We have historically directed our product offering and selling efforts towards the vascular surgeon, and estimate that in 2022 approximately 80% of our sales were from devices and cryopreserved tissue used by vascular surgeons. As vascular surgeons are typically positioned to perform both open vascular surgeries and endovascular procedures, we sell devices in both the open and endovascular markets to the same end user. More recently we have begun to explore adjacent market customers, or non-vascular surgeon customers, who can be served by our vascular device technologies, such as cardiac surgeons.

- **Low rivalry niche segments.** We seek to build and maintain leading positions in niche segments, which we define as under \$200 million in annual worldwide revenue. We believe that the relative lack of focus on these segments by larger competitors, as well as the differentiated features and consistent quality of our products, enable higher selling prices and market share gains. We have, however, also sought to sell complementary offerings into larger, more competitive market segments, particularly when we believe that our offerings in those segments are highly differentiated, such as the Artegraft biologic graft, Omniflow II biosynthetic graft, or RestoreFlow cadaveric tissue.
- **Direct sales force expansion, and the addition of complementary products through acquisitions and to a lesser extent research and development.** We sell our products primarily through a direct sales force in North America, Europe and Asia Pacific. We ended 2022 with 131 direct sales representatives, including two export managers. 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 sell our products through distributors. For the year ended December 31, 2022, approximately 94% 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, mostly through acquisitions. We believe our experience acquiring and integrating product lines and businesses is one of our competitive advantages. We continually evaluate the acquisition of additional product lines and businesses that may be complementary to our product offerings, refine our current product lines or develop new applications for our existing technologies. We also obtain regulatory approvals for our devices in new segments and geographies in order to further access the broader peripheral vascular device market and select other markets.

## Acquisition History

We were founded in 1983 by George D. LeMaitre, M.D., a vascular surgeon who designed and developed the LeMaitre Valvulotome. Through a combination of 24 complementary acquisitions as well as research and development, we have expanded to 16 product lines, which include 13 different product types:

Year	Acquisition	Key Product(s) and Services
1998	VascuTape	Radiopaque tape manufacturing operations
1999	TufTex	Embolectomy catheters
2001	Pruitt F3 Shunt	Carotid shunts, balloon catheters, and laparoscopic cholecystectomy devices
2003	Credent	Polycarbonate grafts
2004	AnastoClip	Vessel closure systems
2005	Endomed	Stent grafts
2007	LeverEdge	Contrast injector
2007	Vascular Architects	Remote endarterectomy devices
2007	UnBalloon	Stent graft modeling catheters
2007	AlboGraft	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	Omniflow II	Biosynthetic grafts
2014	PeriVu	Angioscopes
2015	Eze-Sit OUS	Valve cutters
2016	ProCol	Biologic grafts
2016	RestoreFlow	Human tissue cryopreservation services
2018	Syntel	Embolectomy catheters
2018	Cardial	Polyester grafts, valve cutters, surgical glue
2019	Eze-Sit US	Valve cutters
2019	CardioCel	Biologic patches
2020	Artegraft	Biologic grafts

We manufacture most of our devices in-house, having relocated the manufacturing operations of 19 of our 24 acquisitions to our Burlington, Massachusetts headquarters. The human tissue processing and cryopreservation operations associated with RestoreFlow allografts take place in our Fox River Grove, Illinois facility. Artegraft biologic graft production takes place in our North Brunswick, New Jersey facility. On a limited basis, we use third party manufacturers and we currently purchase our CardioCel and VascuCel patches from Anteris Technologies Ltd (formerly Admedus Ltd) in Malaga, Australia. We are in the process of relocating the production of these CardioCel and VascuCel patches to our Burlington headquarters.

## Our Products and Services

We have a portfolio of 16 product lines, which include 13 different product types, most of which are used to treat vascular disease, and most of which are used in open vascular surgery and dialysis access. We also offer human vascular tissue cryopreservation services. No single product line accounted for more than 20% of our revenues in 2022, 2021 or 2020.

Our 13 product offerings include a suite of biologic products. These offerings include the XenoSure patch (bovine pericardium), CardioCel and VascuCel patches (bovine pericardium), ProCol graft (bovine mesenteric vein), Artegraft (bovine carotid artery), Omniflow II biosynthetic graft (ovine tissue and synthetic mesh) and RestoreFlow Allograft cryopreservation services (human cadaveric tissue). These biologic offerings represented 49% of our sales in 2022, 48% of our sales in 2021, and 43% in 2020.

### *Allografts*

Through our RestoreFlow allograft business, we provide human cadaver tissue cryopreservation services, in particular the processing and cryopreservation of veins and arteries. Our RestoreFlow allografts are cryopreserved human tissue grafts, including saphenous veins, femoral veins and arteries, aortic and iliac arteries, aortic and pulmonary valved conduits and pulmonary patches. These allografts are used in a variety of vascular reconstructions such as peripheral bypass, hemodialysis access, and aortic infections, as well as in cardiac repair and reconstruction.

### ***Angioscopes***

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

### ***Balloon Catheters for Embolectomy and Thrombectomy***

Our TufTex and Syntel lines of embolectomy catheters are used to remove blood clots from arteries. We sell single-lumen latex and latex-free embolectomy catheters, as well as dual-lumen latex and latex-free embolectomy catheters. The dual-lumen embolectomy catheters enable clot removal and simultaneous irrigation or guide-wire trackability. Our Syntel thrombectomy catheter features a silicone balloon and is designed for removing thrombi in the venous system.

### ***Balloon Catheters for Occlusion and Perfusion***

Occlusion catheters temporarily occlude blood flow to allow the surgeon time and space to complete a procedure. Perfusion catheters 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.

### ***Bovine Grafts***

Our Artegraft biologic graft is a bovine carotid artery used for dialysis access in patients with or without a previously-failed synthetic graft. Its biological fibrous matrix is processed to enhance long-term patency and provide a tightly woven, cross-linked conduit that is flexible and compliant. Artegraft is also indicated for lower extremity bypass.

### ***Vascular and Cardiac Patches***

Our XenoSure biologic patches are made from bovine pericardium and are used primarily for closure of vessels after surgical intervention.

Our Vascel and CardioCel biologic patches are acellular, collagen bioscaffolds with optimized biocompatibility and zero aldehyde toxicity. These bovine pericardium patches are used in vessel repair as well as heart repair and reconstruction, including neonatal repairs.

### ***Carotid Shunts***

Our Pruitt F3 and Flexcel carotid shunts are used to temporarily shunt blood to the brain while the surgeon removes plaque in a carotid endarterectomy surgery. Our Pruitt F3 shunt features internal balloon fixation. Our Flexcel shunt is a non-balloon shunt offered for surgeons who prefer external fixation.

### ***Closure Systems***

Our AnastoClip AC and AnastoClip GC closure systems attach vessels to one another with titanium clips instead of sutures. These closure systems create an interrupted anastomosis that expands and contracts as the vessel pulses, which some surgeons believe improves the durability of the anastomosis. The AnastoClip AC and AnastoClip GC closure systems also enable dura closure in neuro applications.

### ***Ovine Vascular Grafts***

Our Omniflow II biosynthetic vascular graft is a composite of cross-linked ovine collagen with a polyester mesh endoskeleton. It is indicated for lower extremity bypass and dialysis access. This device is not available in the United States.

### ***Polyester Vascular Grafts***

Our AlboGraft, Wovex and Dialine II vascular grafts are collagen-impregnated polyester grafts used to bypass or replace diseased arteries. These prostheses are available in straight tube and bifurcated versions.

### ***ePTFE Vascular Grafts***

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

### ***Radiopaque Tape***

Our VascuTape radiopaque tape is a flexible, medical-grade tape with centimeter or millimeter markings printed with a proprietary radiopaque ink which is visible to the eye and an x-ray machine or fluoroscope. VascuTape is applied 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.

### ***Valvulotomes***

Our valvulotomes cut or disrupt valves in the saphenous vein, a vein that runs from the foot to the groin, so the vein can be repurposed as an artery to carry blood past diseased arteries to the lower leg or foot. We believe our valvulotomes reduce costs for hospitals by enabling lower extremity bypass surgery to be performed with several small incisions rather than one continuous ankle-to-groin incision, thereby reducing hospital stays and the likelihood of wound complications.

### **Sales and Marketing**

As of December 31, 2022, we employed 131 sales representatives, including two export managers. We believe the expansion of our sales force since 1998 has been a key success factor, and it remains one of our primary long-term strategies. Approximately 94% of 2022 net sales occurred in territories in which we employ sales representatives. Outside our direct markets, we generally sell our products through country-specific distributors.

Our marketing efforts include direct mail, digital marketing and exhibitions at medical congresses, which we believe are important to our brand development. We believe that marketing allows us to connect with vascular surgeons who are beyond the reach of our direct sales force and also reinforces our brand recognition and product offering to current customers.

We also provide training to our vascular surgeons on specific procedures including in situ bypass, carotid endarterectomy and interrupted anastomosis, as well as a general surgical skills training program targeting less-experienced doctors as a way to introduce them to our product offerings.

### **Research and Development**

Our more recent research and development efforts have focused on cardiac allograft and next-generation powered phlebectomy projects, as well as manufacturing transfers, including the transfer of the manufacturing of VascuCel and CardioCel biologic patches and the OmniFlow II product line to Burlington. In addition, in 2022 our research and development group continued to provide support to our growing regulatory and clinical efforts. In 2022 we completed the relocation work for the OmniFlow II product line and were granted approval to market devices manufactured in Burlington in the European Union. Additionally, a significant portion of the CardioCel and VascuCel transfer to Burlington has been completed and we anticipate that we will apply for regulatory approval to market those devices in the United States and European Union in 2023.

We often use feedback received from independent physicians to demonstrate product functionality before commencing full-scale marketing of any product. To this end, we have initiated the Limited Market Release (LMR) of the next-generation powered phlebectomy device, PhasTIPP, in the United States. Approximately half of the necessary LMR cases have been completed and we anticipate a full launch in the United States in the first half of 2023. Separately, in 2022 we began the review and update of the manufacturing process of the Artegraft product line in an effort to apply for its European MDR CE Mark. We will prioritize the "Artegraft MDR Readiness" project within the department and expect this to consume significant resources over the next two years.

Our regulatory and clinical efforts have historically been focused on obtaining and maintaining regulatory approvals in various geographies. In the past we have typically not conducted clinical trials as we have usually acquired product lines with regulatory approvals already established. In addition, we preferred to avoid the time, expense and risk associated with initiating clinical trials. However, increasing regulatory requirements in many geographies have resulted in the need for more clinical testing. As such, this component of our research and development spending has increased in recent years. In 2017, we initiated clinical trials in an effort to obtain the approval of our XenoSure patch in China for cardiac and vascular indications. We have completed enrollment of the trials and submitted the cardiac license application in June, 2022. We expect to make our vascular submission to the Chinese National Medical Products Administration (NMPA) in 2023. In 2021 we also entered into an agreement with Anteris (formerly Admedus) to assume primary responsibility for the post-market clinical follow-up studies of our CardioCel and VascuCel products.

In 2017 the European Union adopted the new Medical Device Regulation (2017/745) (MDR), which replaced the European Medical Devices Directive (93/42/EC as amended by 2007/47/EC) (MDD) and which took effect as of May 26, 2021. After this date, our MDD certificates then in effect remain valid until their expiration dates, which range from August 2023 to May 2024. Our products will then be subject to the MDR, which require all of our products, regardless of classification, to obtain a new CE mark in accordance with the new, more stringent standards. Going forward, we expect a significant portion of our regulatory and clinical time and expenses to be devoted to this transition. In the first quarter of 2023, we received our first MDR CE marking for our F3 Shunt product line. See –"Government Regulation" below for more information about the status of our MDD certificates.

## **Manufacturing and Processing**

Our primary manufacturing facilities are located in Burlington, Massachusetts. We also have facilities in North Brunswick, New Jersey where Artergraft is produced, and Fox River Grove, Illinois where RestoreFlow allografts are processed.

Our strategy is to transfer the manufacturing of most acquired lines into our Burlington operations. In 2019, we expanded our biologic clean room, and in 2020, we began the manufacturing transfer of Omniflow II in this new clean room. In 2020, we completed the transfer of the Syntel embolectomy business we had acquired from Applied Medical. In 2019, we leased a fifth Burlington building and relocated substantially all of our administrative functions into this building so we could expand our manufacturing footprint. In 2021, we completed the construction of another biologic clean room where we will manufacture CardioCel and VasculCel. Additionally, in 2022, we expanded the footprint of our main cleanroom and raw materials warehouse by approximately 40% in an effort to accommodate increased production and the direct labor hiring surge that occurred in 2021 and 2022. We believe that this expansion will improve working efficiency for our current operations staff.

We manufacture certain proprietary components, assemble most of our devices ourselves, and inspect, test, and package all of our finished products. By 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 for our customers, 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 U.S. tissue procurement organizations. Donated human tissue is procured from deceased donors by these organizations. We have specifications relating to 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 customer relationship management, order entry, invoicing, on-line inventory management, lot traceability, purchasing, shop floor control, shipping and distribution analysis, as well as various accounting-oriented functions. These systems enable us to track our products from order inception through manufacturing and then through delivery to our customers.

We purchase certain 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, most notably the purchase of CardioCel and VasculCel devices from Anteris in Malaga, Australia. While we do have a contractual arrangement with Anteris, we do not have contractual arrangements with many of our suppliers and manufacturers, and we order our supplies and products on an as-needed basis. There are relatively few, or in some cases no, alternative, validated sources for these supplies, products and components. At any time, our suppliers could discontinue or become incapable of the manufacture or supply of these materials on acceptable terms or otherwise. We do not ordinarily carry a significant inventory of these supplies, products and components. Identifying and qualifying additional or replacement suppliers, if required, may not be accomplished quickly or at all and could involve significant additional costs. To date, we have not experienced any significant supply disruptions from existing sources of supplies, products and components, but there is no guarantee that we will not experience such disruptions in the future.

Our Burlington and North Brunswick manufacturing facilities have been certified to ISO 13485 quality management system standards, which enables us to satisfy certain regulatory requirements of the EU, 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 international regulatory requirements. See "Government Regulation" for further information.

## **Competition**

The segments in which our product lines compete are characterized by periodic 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 Abbott, Baxter International, Inc., Artivion, Becton, Dickinson and Company, Cardiovascular Systems, Inc., Edwards Lifesciences Corporation, Getinge, LifeNet Health, Silk Road Medical, Terumo Medical Corporation, and W. L. Gore & Associates.

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 polyester and ePTFE vascular grafts. Certain of these competitors may also have greater experience in developing and improving products, obtaining regulatory approvals, and manufacturing and marketing such products. In the case of allografts, certain competitors may have an advantage in sourcing tissue due to higher volume purchases and longer term relationships with tissue procurement organizations. Additionally, some of our competitors may obtain patent protection or regulatory approval or clearance, or achieve product commercialization before us, any of which could adversely affect our business.

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 more technologically advanced products are often sold at higher prices. We believe our continued success may depend on our ability to broaden and optimize our direct sales channel, acquire complementary vascular devices, obtain regulatory and reimbursement approvals, maintain sufficient inventory, 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 most of our products are used primarily in open vascular surgery. Our ability to compete effectively relies on keeping pace with product offerings in the vascular device market, as well as in the minimally invasive endovascular market.

## **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 trade secret laws, patents, trademarks and confidentiality and invention assignment agreements to protect our intellectual property rights.

We maintain a limited portfolio of patents in the United States, and our issued U.S. patents are set to expire from 2023 to 2031.

We believe that our brands have been an important factor in our success. We rely on common law and registered trademarks to protect our brands. Some of our registered trademarks are LeMaitre, Artegraft, XenoSure, Pruitt, VascaTape, Glow 'N Tell and RestoreFlow, each of which is registered in the U.S., the European Union, or both, and in certain cases in other foreign countries.

We rely on trade secret protection for certain unpatented aspects of other proprietary technology. Most of our products are not protected by patents. Patent protection is not available when we acquire a commercialized product that is not patented, such as the Artegraft biologic graft we acquired in June 2020. 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. 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. 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 U.S. laws 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 U.S. 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 U.S. 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 pre-amendment 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 12 months, but it can take longer. In reviewing a premarket notification, the FDA may request additional information, including clinical data. Nearly all of our devices currently sold in the U.S. are marketed pursuant to 510(k) clearance, with the exception of our Artegraft 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, 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 U.S. market using 510(k) clearance, and we have not used the PMA process for any products that we currently market or sell in the U.S., other than our Artegraft vascular grafts, which had PMA approval at the time we acquired the device.

### ***Postmarket Regulation***

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

- annual manufacturing establishment registration and device listing with the FDA;
- QSR compliance, 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. The most recent FDA inspection of our Burlington facility was in May 2022, the results of which yielded five sets of observations that were subsequently addressed to the FDA's satisfaction. Non-compliance with applicable FDA requirements can result in, among other things, public warning 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.

We participate in the Medical Device Single Audit Program (MDSAP), which allows manufacturers to undergo a universal quality system audit that is accepted in the United States, Japan, Australia, Canada and Brazil in lieu of individual routine audits by each regulator. Maintenance of this certification is a requirement to maintain sales in certain geographies including Canada. Failure to maintain this certification in good standing could result in suspension of our sales efforts in Canada or the other geographies. Our last MDSAP audit was in March 2022 and the results of the audit were deemed satisfactory by SGS, our notified body.

International sales of medical devices manufactured in the U.S. that are not approved or cleared by the FDA for use in the U.S., 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 process human cells, tissues, and cellular and tissue-based products. These FDA regulations also establish donor-eligibility criteria, 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 and our Chandler, Arizona facility are both registered with the FDA's Center for Biologics Evaluation and Research. 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 July 2018 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, 2024. The AATB is entitled to inspect accredited members at any time. The AATB most recently inspected our Fox River Grove, Illinois facility in October 2020, and the results were satisfactory.

## **NOTA**

Under the National Organ Transplant Act (NOTA), 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 reasonable payments associated with the removal, transportation, implantation, processing, preservation, quality control, and storage of a human organ. We believe the compensation we receive with respect to our 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 an adverse effect on our 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 have never been required 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.

## **International 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 EU has adopted numerous directives and standards relating to medical devices regulating their design, manufacture, clinical trials, labeling, and adverse event reporting, including the MDD, and more recently, the MDR, which are applicable to our products. Devices that comply with the requirements of the MDD and MDR are entitled to bear a CE mark, indicating that the device conforms with the essential requirements of the applicable directive/regulations and can be commercially distributed in countries that are members of the EU, as well as the United Kingdom, Iceland, Lichtenstein, Norway, Turkey and Switzerland. Each member state of the EU has implemented the directives/regulations into its respective national law and has each established a “Competent Authority” to apply the directive/regulations in its territory.

The MDD and MDR classification system places devices into Class I, IIa, IIb, or III, depending on the risks and characteristics of the medical device. The MDD and MDR also define the essential requirements (or general safety performance requirements) that devices must meet before being placed on the market, establishes assessment procedures for approving a device, and creates mechanisms for Competent 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 device classification and other related factors.

A manufacturer of low-risk devices typically may demonstrate conformity 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 EU is generally required in order for a manufacturer to commercially distribute the product throughout the EU. Most of our devices are considered higher-risk devices that require Notified Body assessment.

EU medical device laws also address advertising and promotion of medical devices, clinical investigations, and requirements for handling adverse events. Post-market surveillance of medical devices is generally conducted on a country-by-country basis; however, the MDD and MDR set 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 EU.

Our products are regulated in the EU under the European MDD and the MDR. In order to market our medical devices in the EU, we are required to obtain CE mark certifications, which denote conformity, and manufacturers of higher-risk devices generally must use a “Notified Body”—an appointed independent third party to assess conformity. We currently use three Notified Bodies for our various products. We have received CE marks under the MDD to sell most of our products and have one product CE marked under the MDR.

In April 2017, the EU adopted the new MDR regulations for medical devices, which replace the MDD and which took effect as of May 26, 2021. Our products will be subject to the MDR, which requires all of our products, regardless of classification, to obtain a new CE mark in accordance with the new, more stringent standards under the MDR. As a condition to CE mark approval, clinical evidence from clinical investigations will be required for Class III and implantable devices. As our Notified Bodies continue their transition from MDD to MDR, they have begun to enforce these more rigorous requirements on us in order to maintain the CE marks on certain of our products. Additionally, for any of our products for which the CE marks under MDD lapsed before May 26, 2021, we will need to reinitiate the application process in its entirety under the MDR, a process that could take up to two years for each product. As of May 26, 2021 we had two products’ CE marks lapse which represented less than 1% of our EU sales, and we have only recently started the application process for one of those products. If we fail to obtain new CE marks on these products or any of our other products under the MDR in a timely manner, or at all, future sales of our products in the EU could be adversely impacted. In January 2023, we received our first CE marking under the MDR for our Pruitt F3 Shunt. The CE Marks for our CardioCel and Vasucel products are currently set to expire in August 2023. We expect to submit our MDR application in June 2023 and will experience a lapse in CE validity until such approvals are rendered, which could take 24 months. If we cannot obtain an interim approval, our inventory may not be sufficient to support sales, and that could hurt our sales in the EU.

The United Kingdom left the EU on January 31, 2020, which is commonly referred to as “Brexit”. We opened our Hereford, England office in 2019 largely in response to Brexit. Pursuant to the formal withdrawal arrangements agreed between the U.K. and the EU, the U.K. was subject to a transition period until December 31, 2020. After December 31, 2020, medical device manufacturers wishing to import their devices into the U.K. were provided a transition period for registration of their devices until the end of 2021. We have complied with this deadline and all of our CE marks continue to be recognized in the U.K. The U.K. Medicines and Healthcare Products Regulatory Agency (“MHRA”) has announced that CE marking will continue to be recognized in the U.K. and certificates issued by EU-recognized notified bodies will continue to be valid in the U.K. market until July 1, 2024. After this date, all devices marketed in the U.K. will require U.K. Conformity Assessed (“UKCA”) Marks certified by a U.K. Approved Body. If we fail to obtain UKCA conformity by this July 2024 deadline, or at all, our sales in the U.K. could be negatively affected. In January 2023 we received our first UKCA mark for the Pruitt F3 Shunt.

In the event that any of our products prove to be defective, we can voluntarily recall, or the FDA or international 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 international 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. Higher classification risk devices (Class III and IV) require filing dossiers that resemble United States 510(k) applications. These applications can range in cost and typically take longer for approval. As a holder of Canadian device licenses, we are subject to inspection by HC at our Vaughan, Canada office, and we must maintain a valid Medical Device Single Audit Program (MDSAP) certificate. Our Vaughan, Canada office was most recently inspected in August 2017, the results of which were satisfactory. Our Burlington office was most recently audited under the MDSAP in March 2022, the results of which were satisfactory.

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. As a holder of Japanese device licenses, we are also subject to inspection by several Japanese authorities including Japan's Pharmaceutical and Medical Device Agency (PMDA), Tokyo Metropolitan Government (TMG), and third parties such as Japan's Electrical Safety & Environmental Technologies Laboratories (JET). Our Japanese office was most recently inspected by JET in March 2022, the results of which were satisfactory.

Australia regulates the import and sale of medical devices through the Therapeutic Goods Administration (TGA). The TGA has built its regulatory framework around requirements similar 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. As a holder of Australian device licenses, we are also subject to inspection by TGA in both Australia and the United States. Our North Melbourne facility, where we previously manufactured our Omniflow II graft until we transferred production to Burlington, was most recently inspected by TGA in December 2018, and our Burlington facility was most recently inspected in March 2022 under the MDSAP, the results of which were satisfactory. Australia requires all foreign manufacturers to have an in country 'sponsor' who must have a licensed business inside of Australia. Our licenses are managed on our behalf by our sponsor, Emergo Group.

In China, the National Medical Products Administration (NMPA) 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 and Class III being the highest risk. Home country approval, such as 510(k) or PMA clearance, is required as a prerequisite to any application. Additionally, the NMPA often tests devices at its own testing laboratory to confirm each device's specifications. The approval process is typically lengthy and usually requires clinical trials. NMPA licenses are valid for five years from date of issuance and require renewal prior to expiration. As a holder of Chinese device licenses, we are subject to inspection by NMPA in both China and the United States. Our Shanghai offices were most recently inspected by NMPA in August 2018, the results of which were satisfactory. The NMPA 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 U.S., 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, 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.

### ***International***

Our success in international 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 U.S., 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 our distributors to obtain reimbursement approval. There can be no assurance that reimbursement approval will be received.

### **U.S. Fraud and Abuse Laws**

We may directly or indirectly be subject to various U.S. federal and state laws pertaining to healthcare fraud and abuse, including anti-kickback laws. In particular, the U.S. 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 “safe harbors.” 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 safe harbors may result in increased scrutiny by government enforcement authorities, such as the OIG.

### **U.S. 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). Under the PPACA we are subject to 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.

### **Employees and Human Capital Management**

We had 617 employees, including 591 full-time employees, at December 31, 2022. Our full-time employees are comprised functionally as follows: 327 manufacturing and operations, 175 sales and marketing, 51 general and administrative and 38 research and development.

We strive to create a demanding and rewarding work environment by emphasizing teamwork and decentralized decision-making. We are committed to providing equal employment and advancement opportunities to all individuals, and all employment decisions are based on merit, qualifications, and abilities. LeMaitre Vascular does not discriminate in employment opportunities or practices on the basis of race, color, religion, sex, national origin, age, disability, sexual orientation, gender identity, breastfeeding or related medical conditions, religious dress, military or veteran status or any other characteristic protected by law. This policy governs all aspects of employment, including selection, job assignment, compensation, discipline, termination, and access to benefits and training.

We believe in providing competitive pay and benefits to all our employees. We utilize third party benchmark compensation data to determine market wages. Our compensation is designed to attract, retain, and motivate employees to achieve results while balancing short- and long-term company performance. In 2022, we increased our employer medical benefits contribution for hourly employees to 85% and implemented an annual Loyalty Award bonus program for hourly employees as well. We also work with external benefits consultants to evaluate the quality, competitiveness, and cost of our benefit offerings to all our employees.

We review the number of new hires every month to understand our ability to attract talent. We also review our voluntary turnover to understand our ability to retain talent. In 2022, we increased our headcount by 141 full-time employees and our world-wide voluntary resignation rate was 14.7%.

## **Customers**

Our sales are not dependent on any single customer or distributor, and we continue to expand our distribution channel worldwide through direct sales representatives and independent distributors. No single customer accounted for more than 2% of our net sales in 2022.

## **Corporate Information**

On October 19, 2006, we executed our initial public offering, and our common stock trades on The Nasdaq Global Market under the symbol “LMAT.” In January 2021 we changed our brand name from “LeMaitre Vascular” to “LeMaitre”. Our principal executive offices are located at 63 Second Avenue, Burlington, Massachusetts 01803, and our telephone number is (781) 221-2266. Our website address is [www.lemaitre.com](http://www.lemaitre.com).

## **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](http://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). The address of the SEC’s website is [www.sec.gov](http://www.sec.gov). 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, and you should not consider any information contained in, or that can be accessed through, our website as part of this Annual Report on Form 10-K. The SEC maintains an internet site that contains reports, proxy and information statements and other information. 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

*Investing in our securities involves a high degree of risk. You should carefully consider the following information about the risks described below, together with the other information contained in this Report and in our other public filings in evaluating our business. 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 Report 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;
- the acceleration or deceleration of growth rates of our products;
- 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 and our ability to impose price increases;
- productivity of our sales force;
- strategic actions by us, such as acquisitions of businesses or products or divestitures or discontinuations of products;
- effects of domestic and foreign economic and political conditions and exchange rates on our industry and/or customers;
- 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;
- changes to the regulatory status of our products, including the lapse, suspension or cancellation of licenses or CE marking;
- the payment or cessation of quarterly cash dividends, and/or the amount and frequency at which to increase them;
- costs incurred by us to terminate contractual and other relationships, including those of distributors/agents;
- we have not focused on Group Purchasing Organization (GPO) contracts in the United States, which may prohibit unit sales in the future;
- our ability to collect outstanding accounts receivable in selected countries outside of the United States;
- changes in laws in the jurisdictions in which we do business;
- the expiration, elimination or utilization of deferred tax assets such as net operating loss carry-forwards; 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. 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 the sole indicator of our future performance.

*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.*

Treatment of peripheral vascular and cardiovascular disease includes both open vascular surgery and minimally invasive endovascular procedures, and most of our products are used primarily or exclusively in open surgery procedures. We market and sell our products primarily to vascular surgeons. We estimate that in 2022 over 95% of our sales were from devices used in open vascular or other open surgical procedures.

A core component of our growth strategy is the acquisition of complementary product lines, principally in the open vascular surgery space. The number of appropriately sized targets in the open vascular surgery space is limited, and if we are unable to execute on our acquisition strategy (or we do not expand the scope of our acquisition strategy), growth of our sales may be inhibited.

We may not be able to compete effectively 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, or acquiring new products, 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;
- identify suitable acquisition targets in the open vascular surgery space and execute on the acquisition of such targets;
- 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, whether through internal development or by acquisition, we may not achieve our growth objectives and our results of operations as well as our stock price could suffer.

***We may not be able to return to our historic levels of profit growth.***

Our annual operating income for 2022 was 26% lower than 2021. This was due in part to substantial investments we made in growing our sales force and our direct labor pool in 2022. There can be no assurance that we will be able to achieve profit growth in 2023 or in future years. If we are unable to effectively manage our operating expenses due to, for example, increased headcount, we may need to implement cost-cutting measures in order to maintain or improve our 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 expenses;
- our ability to restrain or reduce operating expenses through cost-cutting measures;
- the productivity of our direct sales force and distributors;
- fluctuations in foreign currency exchange rates;
- market acceptance of our new products and services;
- 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 reimbursement rates for the medical procedures in which our products are used;
- the cost of litigation, if any; and
- changes in tax laws.

***If we do not comply with international regulatory requirements to market our products outside the United States or are required to modify our operations or products as a result of such requirements, 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 U.S. FDA. In some countries, we rely on our international 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 currently regulated in the European Union (EU) and the United Kingdom under the MDD and the MDR. In order to market our medical devices in the EU, we are required to obtain CE marks, which denote conformity to the essential requirements of the MDD or MDR, and manufacturers of higher-risk devices generally must use a “Notified Body”—an appointed independent third party to assess conformity. We currently use three Notified Bodies for our various products. We have received CE marks under the MDD to sell most of our products and have recently received our first CE mark under the MDR for our Pruitt F3 Shunt.

In April 2017, the EU adopted new regulations for medical devices, the MDR, which replace the MDD and which took effect as of May 26, 2021. Our products will eventually be fully subject to the MDR, which requires all of our products, regardless of classification, to obtain a new CE mark in accordance with the new, more stringent standards under the MDR. As a condition to CE mark approval, clinical evidence will be required for Class III and implantable devices. As our Notified Bodies transition from MDD to MDR, they have begun to impose more rigorous requirements on us. Nearly all of our products have been submitted to our Notified Bodies for review under the MDR. If we fail to obtain new CE marks on these products or our other products under the MDR in a timely manner, or at all, future sales of our products in the EU could be adversely impacted.

There can be no assurance that we will be able to obtain or maintain MDR CE marks for our existing products, and obtaining CE marks 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. These types of more stringent restrictions on our products as they transition to MDR could impact sales of our products and/or their gross margins could be adversely impacted. For example, under the MDD CE mark issued for XenoSure in 2021, the indications for its use no longer include neuro or cardiac applications, indications for which the product was previously approved. We estimate that the removed indications may have caused a loss of approximately \$0.5 million of annual sales in 2022. Additionally, for a time, only XenoSure made from bovine pericardium sourced from certain of our suppliers was permitted to be sold under the new CE mark, which was a condition of its issuance. In 2022, we successfully reinstated the previously un-approved supplier. Additionally, significant changes to our devices may trigger a requirement to file or obtain an MDR CE mark earlier than expected, which could result in supply chain delays.

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. As highlighted above, there can be no assurance that we will be successful in obtaining, retaining or maintaining the CE mark for any of our current products. In particular, adverse event reporting requirements in the EU and the U.K. 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.

As a result of the United Kingdom's exit from the European Union, the U.K. Medicines and Healthcare Products Regulatory Agency ("MHRA") has announced that CE marking will continue to be recognized in the U.K. and certificates issued by EU-recognized Notified Bodies will continue to be valid in the U.K. market until July 1, 2024. Following such date, all devices marketed in the U.K. will require U.K. Conformity Assessed ("UKCA") Marks certified by a U.K. Approved Body. If we fail to obtain UKCA marks by this July 1, 2024 deadline, or at all, our sales in the U.K. could be negatively affected.

Our facilities are subject to periodic inspection by numerous regulatory authorities, including governmental agencies and Notified Bodies, and we must demonstrate compliance with the applicable medical devices regulations. Any failure by us to comply with regulatory requirements 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 (NMPA) significantly increased the application fees for product registrations and imposed additional requirements for obtaining product approval, which includes requirements for conducting clinical trials to support the registration application process on newly introduced products in China. As a result, we may not seek registration for certain products where the cost is not justified. Any delay in product registrations could have a negative impact on our results of operations.

***The COVID-19 global pandemic outbreak has caused disruptions in our business that may continue for an indefinite period of time.***

Like many companies, we have experienced negative effects on our revenues and operations as a result of the COVID-19 global pandemic. The wide geographic spread of the pandemic has adversely affected the global economy and has resulted in fluctuating and unpredictable demand for our products, many of which are used in elective surgical procedures. We began to experience the negative impacts of the pandemic in March 2020. The negative impact to sales continued in the quarter ended June 30, 2020, with sales decreasing by approximately 16% as compared to the quarter ended June 30, 2019. Beginning with the quarter ended September 30, 2020 and for each quarter thereafter, our revenues have increased as compared to the prior year quarters.

In addition to impacts to our sales, we have experienced other adverse impacts on our business from COVID-19, including, but not limited to, restrictions on employee travel and limitations on our sales representatives' access to customers, as well as reduced surgeon training. While we expect the impacts of COVID-19 may have a continued adverse effect on our business, financial condition and results of operations, we are unable to predict the extent or nature of these impacts at this time.

***Supply chain disruptions could adversely impact our operations and financial condition.***

Global supply chains have been disrupted as a result of the COVID-19 pandemic. Accordingly, the availability of raw materials and components used in the manufacture of our products may be adversely impacted. Additionally, even when we are able to source such materials and components, they may cost more and may only be available on a delayed basis. Higher materials and component costs could adversely affect our margins if we are unable to pass such costs along to customers in the form of price increases. Delays in receipt of materials and components could also interrupt our production and cause us to go into backorder on certain of our products, further exacerbating the global supply chain disruption.

***We may experience difficulties in sourcing, acquiring and integrating businesses and products into our business, or we may not realize the anticipated benefits of these acquisitions.***

In order to expand our product offerings, we have completed 24 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, particularly in the open vascular market. We have not completed an acquisition since 2020. 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;
- degradation in our corporate gross margin due to lower margins associated with our acquired devices;
- the sudden reduction in volume or loss of orders from a key customer, particularly where the acquired company had concentrated sales;
- diversion of management's time and attention from other business concerns;
- higher costs of integration than 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;
- challenges in transferring, maintaining or obtaining regulatory approvals for acquired products;
- 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;
- 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 financing to fund acquisitions, which would be senior to our common stock, would require interest payments to our lenders, and could restrict our ability to pay dividends to our shareholders.

For example, the manufacturing process for our Omniflow II graft, which we acquired in 2014, was transferred to our Burlington headquarters due to our discontinuation of operations in North Melbourne, Australia in June 2020. The MDD CE mark for Omniflow II has been secured and Burlington-built product has not been routinely available for sale on the European market. Most of our Omniflow II inventory held by our European subsidiary, however, has been depleted, and as a result we have experienced backorders, which will continue until we are able to ship sufficient quantities of Omniflow II from Burlington to Europe. Backorders for Omniflow II were approximately \$1.0 million at December 31, 2022. If the ramp-up of Omniflow II shipments to Europe is materially delayed, our European revenues could be further impacted and our business could be harmed.

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 future acquisitions, and could harm our financial condition and results of operations.

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 call point focus on the vascular surgeon with a product portfolio largely used in open vascular 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. For example, some vascular surgeons have begun using transcarotid arterial revascularization, a new minimally invasive procedure, to treat carotid artery disease in lieu of a procedure in which our carotid shunts and vascular patches are used. 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 estimate that in 2022, over 95% of our net sales were from devices used in open vascular or other open surgical procedures.

Demographic trends and other factors, such as reimbursement rates, are driving vascular surgeons 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 of open vascular skills. 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.

***CardioCel, and selected other devices, are sold to a different call point from that of most of our product lines, and we may not be successful in selling to that call point.***

Historically, the majority of sales of CardioCel have been to pediatric cardiac surgeons, a call point that is different from our main call point focus. 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. As a result, our sales representatives call predominantly on vascular surgeons and to a lesser extent, cardiac and neuro surgeons. Our success in selling CardioCel will depend, in part, on our sales representatives devoting a portion of their time to making sales calls to, and establishing relationships with, pediatric cardiac surgeons. If they do not undertake these activities or are unsuccessful in doing so, then this could lead to the loss of CardioCel sales and customers, and our financial condition or results of operations could be harmed. Most of our product lines are used in vascular procedures and as a result, our sales representatives are able to cross-sell most of our product portfolio to vascular surgeons. Cross-selling opportunities to pediatric cardiac surgeons are limited. Additionally, if our sales representatives spend less time focused on vascular surgeons, the sales of our vascular products could decrease, and our financial condition or results of operations could be harmed. Selected Xenosure and RestoreFlow devices are also sold to call points other than the vascular surgeon.

***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.***

Our ability to successfully provide RestoreFlow allograft processing, preservation and distribution 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 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, particularly as we may compete for these tissues with organizations who may have greater resources than us;
- 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 own 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 business and 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 components and certain products. For example, we rely on a sole-source supplier for ovine material used in our Omniflow II graft.

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 multiple 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 allograft service revenues could be adversely affected.

When we acquire a product line, we often enter into an agreement with the seller of the product line for a period of one to three years for the supply of the acquired product until we can transition manufacturing to our facilities. Those arrangements are always sole source supply arrangements with a supplier that has determined to divest the product it is manufacturing. As a result, the supplier may not allocate sufficient resources to the manufacture of our product in favor of dedicating resources to its remaining business. Additionally, there is significant risk if the supplier does not have the financial means to continue to supply product. For example, in the case of our 2019 acquisition of the CardioCel and VasculCel biologic patches, Anteris Technologies Ltd (formerly known as Admedus Ltd) and its affiliates have agreed to continue to supply those products to us until January 2024. If Anteris fails to meet its obligations under the supply agreement on a timely basis, or at all, then we may experience interruptions in our supply of the acquired products or we may not receive a future supply of the acquired products until we establish our own manufacturing. If we do not have sufficient supply of an acquired product, this could lead to loss of sales, customer dissatisfaction and damage to our reputation, and our financial condition or results of operations could be harmed.

There are relatively few, or in some cases no, alternative, validated sources of supply for these materials and products. We do not always have supply agreements in place with 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 materials or products on acceptable terms or otherwise. We do not ordinarily carry a significant inventory of these materials 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 loss of sales and customers, and our financial condition or results of operations could be harmed. In some cases, changes to raw material suppliers or use of alternative raw materials may require significant testing and subsequent approval by our regulatory bodies. These approval processes could result in significant delays or refusal to approve, which could further limit our ability to deliver products to our customers and harm our sales.

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

Our principal worldwide executive, distribution, and manufacturing operations are located in five leased facilities in Burlington, Massachusetts. We also have a manufacturing site in North Brunswick, New Jersey as well as a tissue processing preservation and distribution facility in Fox River Grove, Illinois. These facilities and the equipment we use to manufacture 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.

***We depend on our senior management team and other key sales and technical personnel, and if we are unable to retain them or recruit additional qualified personnel we may not be able to manage our operations and meet our strategic objectives.***

We depend on the continued services of our senior management team and other key sales and technical personnel, as well as our ability to continue to attract and retain additional highly qualified personnel. Each of our key employees may terminate his or her employment with us at any time, and the loss of any of our senior management team or key employees could harm our business. Because we compete for such personnel with other companies, academic institutions, government entities, and other organizations, we may not be able to meet our future hiring needs or retain existing personnel on acceptable terms. Any loss or interruption of the services of our key personnel could also significantly reduce our ability to effectively manage our operations and meet our commercial or strategic objectives, because we cannot be sure that we would be able to find an appropriate replacement on a timely basis.

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

Our AlboGraft and Cardial vascular grafts, Artegraft biologic patch, XenoSure biologic patch, ProCol vascular graft and CardioCel and VasculCel patch products contain bovine tissue or material derived from bovine sources, and our Omniflow II Biosynthetic Vascular Graft contains ovine tissue. Products that contain materials derived from animal sources 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 U.S. have also 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 operate 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.

Our competitors may be companies which are larger than us and have substantially greater financial, technological, research and development, regulatory, marketing, sales, and personnel resources than we do. Certain competitors are able to manufacture at lower costs and may offer comparable products at lower prices. Certain competitors may also have greater experience in developing and improving products, obtaining regulatory approvals, and manufacturing and marketing products. Certain 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. 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 different kinds of medical devices than we currently sell. Increased competition could also result in price reductions and loss of market share, any of which could result in lower revenues and reduced gross profits.

***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, 2022, 2021 and 2020, 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 valvulotome and carotid shunt sales. In the past, we have been able to rely upon our well-known brands and our established reputation to implement price increases.

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

- if healthcare spending is reduced, particularly in the U.S., 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;
- if competitors introduce lower-priced products of comparable safety and efficacy; or
- if customers engage in information sharing regarding competitive pricing of medical devices.

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 making our products 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 outside of the U.S. For the year ended December 31, 2022, 39% of our net sales were derived from outside of the U.S. 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;
- the risk of non-compliance with the Foreign Corrupt Practices Act or other anti-corruption laws by our personnel, distributors and other agents, especially in areas with heightened corruption risk such as China and Russia;
- 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 or party with whom we do business that would restrict or prohibit continued business with the sanctioned country or party;
- a shortage of high-quality sales personnel and distributors;
- loss of any key personnel who are 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;
- clawback of funds spent on healthcare in excess of budgeted amounts by foreign governments ;
- 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 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 the 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 are defectively designed, manufactured, processed or labeled, contain defective components, or are misused, or if our products or the tissues we process 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, divert management's time and attention and harm our business. Additionally, we could experience adverse effects of litigation even before finally adjudicated if a counterparty is granted intermediate relief such as an injunction. Even claims without merit could subject us to adverse publicity and require us to incur significant legal fees. 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 direct-to-hospital through our own direct sales representatives. In the future, we may elect to convert select additional countries and products from distributor sales to direct-to-hospital 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 because distributors, unlike direct sales representatives, pay us for inventory which they store 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 bill and collect from the single distributor.

Our distribution agreements are exclusive, where permissible, with terms typically of one to three years. These agreements may temporarily constrain our ability to convert certain countries or products from a distributor to a direct-to-hospital 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-to-hospital model. The transition to a direct sales model may require us to meet regulatory requirements that were previously the responsibility of the distributor, which may subject us to additional costs. It also may take us longer than expected to find 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 may be time-consuming to manage remotely, as is the case with our sales office in China, which consumes a disproportionate amount of capital and other resources in view of its sales levels. 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 significant portion of our revenue and costs is denominated in other currencies, such as the Euro, the British pound, the Japanese yen, the Canadian dollar, the Chinese yuan, the Korean won and the Australian dollar. For the year ended December 31, 2022, 39% of our net sales were to customers outside the U.S., largely in currencies other than the U.S. dollar. 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. Conversely, our local currency-based net assets, revenue, operating expenses, and net income will decrease if the U.S. dollar strengthens against the local currency. In 2022, the strong dollar decreased our net sales by \$6.1 million. Additionally, receivable and payable balances denominated in currencies other than the functional currency may result in gains and losses upon settlement 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 that 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 U.S. 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 tissue, 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 brand could be materially adversely affected.

***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.***

Each medical device that we wish to market in the U.S. 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 three to twelve months from the date the FDA receives the application, but may take longer. Although 510(k) clearances have been obtained for nearly all of our current products that require such 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 existing 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 longer. Achieving premarket approval typically requires extensive clinical trials and may require the filing of numerous amendments with the FDA over time. The FDA may also require post-approval studies to continue demonstrating the safe and effective performance of these devices. We do not have significant experience in obtaining PMA approval or conducting these studies 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. Additionally, in April 2018, the FDA announced the Medical Device Safety Action Plan: Protecting Patients, Promoting Public Health in which the FDA has proposed limiting the age of predicate devices used in 510(k) applications, thus narrowing the field of available predicates for comparison in the 510(k) process. 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, including, but not limited to, warning letters, fines and penalties, injunctions, civil or criminal charges, mandatory recalls, and withdrawal of clearances to sell products.

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 efforts to ensure that our quality systems and the operation of our manufacturing facilities remain in compliance with U.S. and non-U.S. regulatory requirements, that audits 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 participate in the Medical Device Single Audit (MDSAP) program, which allows manufacturers to undergo a universal quality system audit that is accepted in the United States, Japan, Australia, Canada and Brazil in lieu of individual routine audits by each regulator. Maintenance of this certification is a requirement to maintain sales in certain geographies including Canada. Failure to maintain this certification in good standing could result in suspension of our sales efforts in Canada or other geographies.

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 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 U.S. 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 EU, 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 prove 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 March 2020 we conducted a worldwide recall of a substantial number of our TufTex over-the-wire embolectomy catheters due to a risk of the balloon catheter failing to deflate during use. We experienced backorders for these products while we addressed this issue. Recalls, whether voluntary or required, 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.

***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 U.S. 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 U.S. 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 U.S. and abroad, or adverse decisions relating to our products by administrators of these systems in coverage or reimbursement, could 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.

### **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 maintaining and enforcing our intellectual property rights, 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 or from gaining access to our proprietary information and technology.

We have few patents on our technology. Even where we do have patents, the issuance of a patent is not always conclusive as to its validity or enforceability. Any patents we have obtained or could obtain in the future might also be invalidated or circumvented by third parties. Additionally, competitors may be able to design around our patents to produce alternative, non-infringing designs. In such cases, 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 U.S. 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 often seek patent protection for their novel 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 or other intellectual property rights 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 a third party could claim that our manufacturing process violates an existing patent or other intellectual property rights. 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 or other intellectual property rights of 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, 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 an 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. Shareholders may not be able to resell their shares at or above the price at which they 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 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;
- changes in our growth rates or our competitors' growth rates;
- 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;
- developments regarding our patents or proprietary rights or those of our competitors;
- our inability to raise additional capital;
- 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;
- reduced or lower volume of trading in our common stock; and
- our inclusion in or removal from stock market indices, such as the S&P 600 or Russell 2000.

The stock market has experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of individual companies. The market price of our common shares may also fluctuate significantly due to a variety of factors unrelated to our financial results, including political instability, natural disasters, pandemics (such as COVID-19), war and/or events of terrorism; comments by securities analysts; and general market conditions in our industry or in the economy as a whole. Broad market and industry factors may seriously affect the market price of companies' stock, including ours, regardless of actual operating performance. In the past, following periods of volatility in the overall market and the market price of a particular company's securities, securities class action litigation has often been instituted against these companies. 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 controls approximately 11% of our outstanding common stock as of December 31, 2022. As a result, he could 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 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 our credit facility 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 five leased facilities with square footage totaling 109,354 in Burlington, Massachusetts. All five Burlington leases expire in December 2030. In connection with our acquisition of the Artegraft biologic graft business, we assumed a 16,732 square foot lease in North Brunswick, New Jersey, which expires in October 2029. In addition, our European operations are headquartered at a 21,410 square foot leased facility located in Sulzbach, Germany, with a lease expiring in June 2031. We also lease additional manufacturing, processing, distribution and sales offices in other U.S., Europe, U.K. and Asia Pacific locations. 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, contractual, 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, 2022, 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 is publicly traded on The Nasdaq Global Market under the symbol “LMAT”. Prior to our initial public offering on October 19, 2006, there was no public trading market for our common stock.

#### Holders of Record

On February 24, 2023, the closing price per share of our common stock was \$51.29 as reported on The Nasdaq Global Market, and we had approximately 147 stockholders of record. In addition, we believe that a significant number of beneficial owners of our common stock hold their shares in street name.

#### Dividends

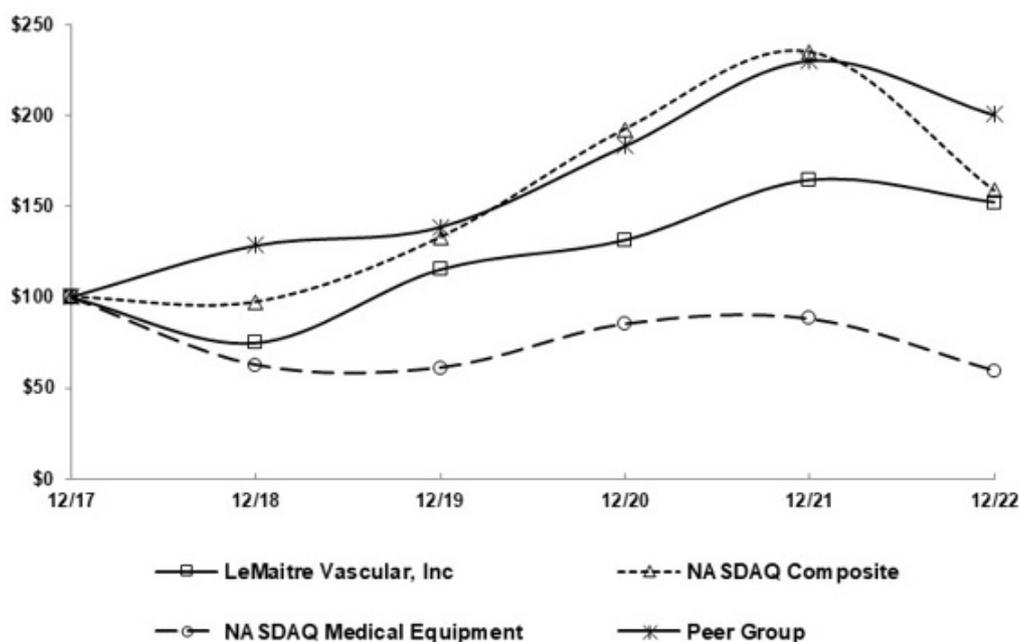
In February 2011, our Board of Directors approved a policy for the payment of quarterly cash dividends on our common stock. In 2022, we paid a quarterly cash dividend of \$0.125 per share and, in 2021, we paid a quarterly cash dividend of \$0.110 per share. On February 21, 2023, our Board of Directors approved a quarterly cash dividend on our common stock of \$0.14 per share payable on March 23, 2023, to stockholders of record at the close of business on March 9, 2023, which will total approximately \$3.1 million. 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.

#### 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, 2017, through the end of LeMaitre’s fiscal year ended December 31, 2022. The graph assumes an investment of \$100.00 made on December 31, 2017, 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. The following shall not be deemed incorporated by reference into any of our other filings under the Securities Exchange Act of 1934, as amended, or the Securities Act of 1933, as amended, except to the extent we specifically incorporate it by reference into such filings.

The comparisons in the graph below are based upon historical data and are not indicative of, nor intended to forecast, future performance of our common stock.

**COMPARISON OF 5 YEAR CUMULATIVE TOTAL RETURN\***  
Among LeMaitre Vascular, Inc, the NASDAQ Composite Index, the NASDAQ Medical Equipment Index, and 2022 Peer Group



\*\$100 invested on 12/31/17 in stock or index, including reinvestment of dividends.  
Fiscal year ending December 31.

	12/17	12/18	12/19	12/20	12/21	12/22
LeMaitre Vascular, Inc	100.00	74.87	115.13	131.35	164.34	152.19
NASDAQ Composite	100.00	97.16	132.81	192.47	235.15	158.65
NASDAQ Medical Equipment	100.00	62.72	61.17	85.34	88.20	59.54
2022 Peer Group	100.00	128.51	138.64	183.32	230.41	200.59

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 the year presented. The peer group includes the following companies: AngioDynamics, Inc., Artivion, Inc., Atricure, Inc., Cardiovascular Systems Inc., Inari Medical, Inc., Merit Medical Systems, Inc., Penumbra, Inc., Shockwave Medical, Inc., and Silk Road Medical, Inc.

**Recent Sales of Unregistered Securities**

Not Applicable.

**Issuer Purchases of Equity Securities**

Period	Issuer Purchases of Equity Securities			
	Total Number of Shares (or Units) Purchased (1)	Average Price Paid Per Share (or Unit)	Total Number of Shares (or Units) Purchased as Part of Publicly Announced Plans or Program	Maximum Number (or Approximate Dollar Value) of Shares (or Units) that may yet be Purchased under the Plans or Program
October 1, 2022 through October 31, 2022	-	\$ -	N/A	N/A
November 1, 2022 through November 30, 2022	55	\$ 53.24	N/A	N/A
December 1, 2022 through December 31, 2022	10,521	\$ 46.58	N/A	N/A
<b>Total</b>	<b>10,576</b>	<b>\$ 46.61</b>	<b>N/A</b>	<b>N/A</b>

- (1) For the three months ended December 31, 2022, we repurchased 10,576 shares of our common stock to satisfy employees' obligations with respect to minimum statutory withholding taxes in connection with the vesting of restricted stock units.

**Item 6. Reserved**

**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.*

The principal objectives of this Management’s Discussion and Analysis of Financial Condition and Results of Operations are to enhance our overall financial disclosures by providing explanation and analysis of the Company’s financial results and condition, as viewed by our management.

**Overview**

We are a global provider of medical devices and human tissue cryopreservation services largely used in the treatment of peripheral vascular disease, end-stage renal disease, and to a lesser extent cardiovascular disease. We develop, manufacture, and market vascular devices to address the needs of vascular surgeons and, to a lesser degree, other specialties such as cardiac surgeons, general surgeons and neurosurgeons. Our diversified portfolio of devices consists of brand name products that are used in arteries and veins and are well known to vascular surgeons. Our principal product offerings are sold globally, primarily in the United States, Europe, Canada and Asia Pacific. We estimate that the annual worldwide market for peripheral vascular devices exceeds \$5 billion, within which we estimate that the market for our products is approximately \$750 million. We have grown our business using a simple 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, to a lesser extent, developing complementary devices. We have used acquisitions as a primary means of further penetrating the peripheral vascular device market, and we expect to continue this strategy in the future. We currently manufacture most of our products in our Burlington, Massachusetts headquarters.

Our products and services 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, vascular surgeons can perform both open surgical and minimally invasive endovascular procedures, and therefore can provide a wider range of treatment options to their patients. More recently, however, we have begun to explore adjacent market customers, or non-vascular surgeon customers, who can be served by our vascular device technologies, such as cardiac surgeons and neurosurgeons.

Since March 2020, the COVID-19 pandemic has significantly impacted the markets for our products as well as our business. In response to COVID-19, many hospitals limited elective procedures at the onset of the pandemic and then periodically when infection rates have increased. Many of our devices are used in elective procedures. Additionally, our sales representatives’ access to hospitals and surgeons has periodically been restricted by hospitals or local governments. More recently, however, in many geographies we have seen restrictions eased. Since 2020, these dynamics have resulted in variable and unpredictable sales.

Our principal product lines include the following: anastomotic clips, biologic vascular and dialysis grafts, biologic vascular and cardiac patches, carotid shunts, embolectomy catheters, occlusion catheters, radiopaque marking tape, synthetic vascular and dialysis grafts, and valvulotomes. Through our RestoreFlow allografts business, we also provide services related to the processing and cryopreservation of human vascular and cardiac tissue.

Our principal biologic offerings include vascular and cardiac patches as well as vascular and dialysis grafts. In 2022, biologics represented 49% of our worldwide sales. We view the biologic device offerings favorably, as we believe they represent differentiated and in some cases growing product segments.

To assist us in evaluating our business strategies, we 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:

- adding complementary products through acquisitions;
- growing our direct sales force in the United States, Europe, the United Kingdom, Canada and Asia Pacific, including replacing a distributor with our sales personnel;
- introducing our products into new territories upon receipt of regulatory approvals or registrations in these territories;
- increasing the average selling prices of our devices;
- consolidating and automating product manufacturing at our Burlington, Massachusetts facilities, and
- updating existing products and introducing new products through research and development.

We sell our products and services primarily through a direct sales force. As of December 31, 2022, our sales force was comprised of 131 sales representatives in North America, Europe and Asia Pacific, including two export managers. Our worldwide headquarters is located in Burlington, Massachusetts, and we also have North American sales offices in Chandler, Arizona and Vaughan, Canada. Our European headquarters is located in Sulzbach, Germany, and we also have sales offices in Milan, Italy; Madrid, Spain; and Hereford, England. Our Asia Pacific headquarters is located in Singapore, and we also have sales offices in Tokyo, Japan; Shanghai, China; Kensington, Australia; and Seoul, Korea. During the years ended December 31, 2022 and 2021, approximately 94% of our net sales were generated in territories in which we employ direct sales representatives. We also sell our products in other countries through distributors.

Historically we have experienced success in lower-rivalry niche segments. In the valvulotome market, for example, our highly differentiated devices have historically allowed us to increase our selling prices while maintaining unit share. In contrast, we have experienced less success in highly competitive markets such as the polyester vascular graft market, where we face competition from larger companies with greater resources and lower per unit costs. While we believe these challenging market dynamics can be mitigated by our relationships with vascular surgeons, there can be no assurance that we will succeed in highly competitive markets.

We have also experienced success in international markets, such as Europe, where we have a significant sales force, and sometimes offer comparatively lower average selling prices. If we continue to seek growth opportunities outside of North America, we may experience downward pressure on our gross margin.

Our strategy for growing our business includes the acquisition of complementary product lines and companies, which can be difficult to identify, negotiate and purchase, and there can be no assurance that we will be able to do so in the future.

- In July 2019, we entered into an agreement with UreSil, LLC to purchase the remaining assets of their Eze-Sit valve cutter business, including U.S. distribution rights, for \$8.0 million.
- In October 2019, we entered into an agreement with Admedus to purchase the assets of their CardioCel biologic patch business for \$15.5 million plus additional payments of up to \$7.8 million, depending upon the satisfaction of certain contingencies.
- In June 2020, we entered into an agreement with Artegraft to purchase the assets of their bovine graft business for \$72.5 million plus additional payments of up to \$17.5 million, depending upon 2021 – 2023 unit sales.

Occasionally we discontinue or divest products or product lines that are no longer complementary to our business or that are not commercially viable.

- During 2021, we made decisions to wind down or discontinue our TRIVEX powered phlebectomy systems, remote endarterectomy devices and surgical glue. These product lines totaled approximately \$2.2 million in 2021 revenues.
- During 2022, we made the decision to wind down the ProCol graft, AlboSure polyester patch, LeverEdge and Latis graft cleaning catheter product lines. These products totaled approximately \$1.0 million in 2021 revenues.

From time to time we may undertake SKU reductions and transition sales to other SKUs or products with similar features. For example, in 2022, we decided to initiate the transition of sales of our Syntel spring tip catheter to our Syntel regular tip catheter. Any of these actions may result in inventory write-offs and temporary or permanent negative impacts to our sales, gross margin and customer relationships.

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 into our direct sales organization:

- During 2020, we entered into definitive agreements with, or participated with Admedus in concluding agreements with, several former Admedus distributors in Europe and Canada, in order to terminate their distribution of our bovine cardiac and vascular patch products previously distributed by Admedus, and we began selling direct-to-hospital in those geographies. The termination fees totaled approximately \$0.1 million.
- During 2020, we participated with Artegraft in concluding agreements with several of their former U.S. distributors in order to terminate their distribution of our bovine graft products. We now sell Artegraft products direct-to-hospital throughout the United States.
- In May 2022, we entered into a distribution transition agreement with our Korean distributor in order to sell products directly in Korea and dissolve the existing distribution arrangement. We began selling direct-to-hospital in December 2022. The distribution termination fees totaled approximately \$0.5 million.

We also rely, to a much lesser extent, on internal product development efforts to bring differentiated technologies and next-generation products to market:

- In 2020, we launched RestoreFlow cardiac allografts for use in cardiac repair and restoration.
- In March 2022, we received U.S. FDA clearance to market PhasTIPP, a portable powered phlebectomy device used to remove varicose veins in the leg. We expect to launch this product in 2023.

In addition to our sales growth strategies, we have also executed several operational initiatives designed to consolidate manufacturing into our Burlington facilities. We expect these plant consolidations will result in improved control over production quality as well as reduced costs. Our most recent manufacturing transfers included:

- In June 2014, we acquired the Omniflow II ovine graft business from BioNova, International. In June 2019, we initiated a project to transfer the production of these devices to our Burlington facilities. We received approval to sell these devices in Europe in June 2022. We expect this transfer to be substantially complete in 2023.
- In October 2019, we acquired the CardioCel and VasculCel biologic patch businesses from Admedus. In July 2020, we initiated a project to transfer the production of these devices to our Burlington facilities. We expect this transfer to be substantially complete in 2023.
- In June 2022, we closed our St. Etienne, France factory in order to streamline manufacturing operations and to reduce expenses. The Cardial business previously conducted at the St. Etienne facility consisted of the manufacturing of polyester vascular grafts, valvulotomes, surgical glue and select OEM devices. We expect to transition Cardial graft sales to our Burlington-manufactured polyester vascular graft product (Albografit) for additional cost savings and improved margins. We acquired the Cardial business in 2018.

Our execution of these initiatives may affect the comparability of our financial results and may cause fluctuations from period to period as we incur related process engineering and other charges.

Fluctuations in the exchange rates between the U.S. dollar and foreign currencies, primarily the Euro, affect our financial results. For the year ended December 31, 2022, approximately 39% of our sales took place outside of the U.S., largely in currencies other than the U.S. dollar. We expect foreign currencies will represent a significant percentage of future sales. Selling, marketing, and administrative costs related to these sales are also denominated in foreign currencies, thereby partially mitigating our bottom-line exposure to exchange rate fluctuations. However, 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 record less revenue in U.S. dollars than we did before the exchange rate changed. For 2022, we estimate that the effects of changes in foreign exchange rates decreased our reported sales by approximately \$6.1 million, as compared to rates in effect for 2021.

## 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 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 the majority 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 the 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, sales meetings, attendance at vascular congresses, 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 salaries, stock based compensation, legal and accounting fees, information technology expense, intangible asset amortization expense and insurance expense.

**Research and development.** Research and development expense primarily includes costs associated with obtaining and maintaining regulatory approval of our products, salaries, laboratory testing and supply costs. It also includes costs associated with the design and execution of clinical studies, costs to register, maintain, and defend our intellectual property, and costs to transfer the manufacturing of acquired product lines to our Burlington facility. Also included are costs associated with the design, development, testing and enhancement of new or existing products.

**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 U.S., which include operating losses or profits 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 U.S. and foreign subsidiaries, permanent items, discrete items, unrecognized tax benefits, and amortization of goodwill for U.S. tax reporting purposes.

## Results of Operations

Since March 2020, the COVID-19 pandemic has significantly impacted the markets for our products as well as our business. In response to COVID-19, many hospitals limited elective procedures at the onset of the pandemic and then periodically when infection rates have increased. Many of our devices are used in elective procedures. Additionally, our sales representatives' access to hospitals and surgeons has periodically been restricted by hospitals or local governments. More recently, in many geographies we have seen restrictions eased. These dynamics have resulted in, and we expect will continue to result in, variable and unpredictable sales.

As described above, our results could be materially impacted in the near term. These financial statements and management's discussion and analysis of financial condition and results of operations should be read in that context.

**Comparison of the year ended December 31, 2022 to the year ended December 31, 2021**

The following tables set forth, for the periods indicated, our net sales by geography, and the change between the specified periods expressed as a percentage increase or decrease:

	2022	2021	\$ Change	Percent change
	(\$ in thousands)			
Net sales	\$ 161,651	\$ 154,424	\$ 7,227	5%
Net sales by geography:				
Americas	\$ 109,439	\$ 102,265	\$ 7,174	7%
Europe, Middle East and Africa	41,854	42,132	(278)	(1%)
Asia Pacific	10,358	10,027	331	3%
Total	\$ 161,651	\$ 154,424	\$ 7,227	5%

**Net sales.** Net sales increased \$7.2 million, or 5%, to \$161.7 million for the year ended December 31, 2022, compared to \$154.4 million for the year ended December 31, 2021. The increase was driven primarily by increased bovine graft sales of \$2.9 million, carotid patch sales of \$2.4 million, shunt sales of \$2.4 million, and allograft preservation services of \$1.7 million. The increased sales were partially offset by decreased ovine graft sales of \$1.5 million (largely due to regulatory and production related back-orders which totaled approximately \$1.0 million at year end) and surgical glue sales of \$0.7 million. We estimate that the stronger U.S. dollar decreased net sales by \$6.1 million during the year ended December 31, 2022 as compared to the year ended December 31, 2021.

During the years ended December 31, 2022 and 2021, approximately 94% of our net sales were direct-to-hospital.

**Net sales by geography.** Net sales in the Americas increased \$7.2 million, or 7%, for the year ended December 31, 2022 as compared to the year ended December 31, 2021. The increase was driven primarily by increased bovine graft sales of \$2.9 million, allograft preservation services of \$1.3 million, shunt sales of \$1.1 million, valvulotomes sales of \$0.9 million, and carotid patch sales of \$0.6 million.

EMEA net sales decreased \$0.3 million, or 1%, for the year ended December 31, 2022 as compared to the year ended December 31, 2021. The decrease was driven primarily by a comparatively stronger dollar in 2022, as well as decreased ovine graft sales of \$1.5 million (largely due to regulatory and production related back-orders which totaled approximately \$1.0 million at year end), and surgical glue sales of \$0.7 million. The decreased sales were partially offset by increased shunt sales of \$1.4 million and carotid patch sales of \$1.1 million.

Asia Pacific net sales increased \$0.3 million, or 3%, for the year ended December 31, 2022 as compared to the year ended December 31, 2021. The increase was driven primarily by increased carotid patch sales of \$0.7 million and embolectomy catheters sales of \$0.3 million. The increased sales were partially offset by a comparatively stronger dollar in 2022, as well as decreased occlusion catheters, valvulotome, shunt, and clip sales of \$0.1 million each.

The following table sets forth the change in our gross profit and gross margin for the periods indicated:

	2022	2021	Change	Percent change
	(\$ in thousands)			
Gross profit	\$ 104,896	\$ 101,382	\$ 3,514	3%
Gross margin	64.9%	65.7%	-0.8%	*

\* Not applicable

**Gross Profit.** Gross profit increased \$3.5 million, or 3%, to \$104.9 million for the year ended December 31, 2022, and gross margin decreased by 80 basis points to 64.9% in the period. The increase in gross profit was driven primarily by increased sales from bovine grafts, carotid patches, and shunts. The decrease in the gross margin was driven primarily by unfavorable changes in foreign currency exchange rates, manufacturing inefficiencies largely related to increased direct labor and quality costs, and unfavorable product mix including higher sales of comparatively lower margin embolectomy catheters and polyester grafts and lower sales of comparatively higher margin valvulotomes.

### Operating Expenses

The following tables set forth changes in our operating expenses for the periods indicated and the change between the specified periods expressed as a percentage increase or decrease:

	2022	2021	\$ change	Percent change	2022 as a % of Net Sales	2021 as a % of Net Sales
	(\$ in thousands)					
Sales and marketing	\$ 32,921	\$ 27,655	\$ 5,266	19%	20%	18%
General and administrative	28,745	25,501	3,244	13%	18%	17%
Research and development	13,294	11,801	1,493	13%	8%	8%
Restructuring	3,107	-	3,107	*	2%	0%
	\$ 78,067	\$ 64,957	\$ 13,110	20%	48%	42%

\* Not a meaningful percentage.

**Sales and marketing.** For the year ended December 31, 2022, sales and marketing expense increased 19% to \$32.9 million. The increase was driven primarily by higher salaries and related expenses of \$4.1 million, including higher sales commissions of \$1.4 million. From December 31, 2021 to December 31, 2022, we increased our sales representative headcount from 103 to 131. We also added two additional regional sales managers in the period. Travel and related expenses were also higher by \$0.8 million. Expense reduction programs implemented in 2020 through 2021 in response to COVID-19, including a reduction in sales force, lowered expenses for the year ended December 31, 2021. We have since rehired in many areas, including our sales force. As a percentage of net sales, sales and marketing expense increased to 20% for the year ended December 31, 2022, up from 18% in the prior period.

**General and administrative.** For the year ended December 31, 2022, general and administrative expenses increased 13% to \$28.7 million. The increase was driven primarily by higher salaries and related expenses of \$2.7 million due to an increase in personnel. Additionally, in 2021 we recognized a gain of \$0.5 million related to the amendment of a contingent purchase obligation associated with our 2019 Admedus biologic patch acquisition which lowered general and administrative expenses. As a percentage of sales, general and administrative expense increased to 18% for the year ended December 31, 2022, up from 17% in the prior period.

**Research and development.** For the year ended December 31, 2022, research and development expense increased 13% to \$13.3 million. The increase was driven primarily by higher salaries and related expenses of \$1.1 million due to an increase in personnel. Outside services and testing also increased by \$0.5 million primarily due to higher third-party costs associated with European regulatory approvals. Our products are currently regulated in the European Union (EU) and the United Kingdom under the European Medical Devices Directive (MDD) and the Medical Device Regulation (MDR). In order to market our medical devices in the EU and the United Kingdom, we are required to obtain CE marks, which denote conformity to the essential requirements of the MDD or MDR. As a percentage of sales, total research and development expense was 8% for both 2022 and 2021.

**Restructuring.** For the year ended December 31, 2022, restructuring expense was \$3.1 million. On June 30, 2022 we ceased operations at our St. Etienne, France factory. The closure resulted in a restructuring charge of \$3.1 million for the year ended December 31, 2022. Charges primarily consisted of employment termination costs, impairment of fixed assets and inventory, and third-party costs. We did not record additional expenses related to the closure subsequent to June 30, 2022.

**Income tax expense.** We recorded a tax provision of \$6.9 million on pre-tax income of \$27.5 million for the twelve months ended December 31, 2022, compared to \$7.4 million on pre-tax income of \$34.3 million for the twelve months ended December 31, 2021.

Our effective income tax rate was 27.8% and 24.9% for the three- and twelve-month periods ended December 31, 2022. Our tax expense for 2022 is based on an estimated annual effective tax rate of 26.0%, adjusted in the applicable quarterly periods for discrete stock option exercises and other discrete items. Our income tax expense for 2022 varies from the statutory rate mainly due to permanent items, different statutory rates from our foreign entities, and a discrete item for stock option exercises.

Our effective income tax rate was 21.9% and 21.5% for the three- and twelve-month periods ended December 31, 2021. Our 2021 provision was based on an estimated annual effective tax rate of 24.7%, adjusted in the applicable quarterly period for discrete stock option exercises and other discrete items. Our income tax expense for 2021 varied from the statutory rate mainly due to federal and state tax credits, permanent items, different statutory rates from our foreign entities, and a discrete item for stock option exercises.

We monitor the mix of profitability by tax jurisdiction and adjust our annual expected rate on a quarterly basis as needed. While it is often difficult to predict the final outcome or timing of the resolution for any particular tax matter, we believe our tax reserves reflect the probable outcome of known contingencies.

We assess the likelihood that our deferred tax assets will be realized through future taxable income and record a valuation allowance to reduce gross deferred tax assets to an amount we believe is more likely than not to be realized. As of December 31, 2022, we have provided a valuation allowance of \$1.6 million for deferred tax assets primarily related to Australian net operating loss and capital loss carry forwards and Massachusetts tax credit carry forwards that are not expected to be realized.

Beginning in 2022, the Tax Cuts and Jobs Act of 2017 eliminated the option to deduct research and development expenditures immediately in the year incurred and requires taxpayers to amortize such expenditures over five years for tax purposes. This provision resulted in a cash tax liability for the 2022 tax year of approximately \$0.7 million. Our net deferred tax assets increased in 2022 by approximately \$0.7 million as a result as well. This provision is also expected to increase our 2023 cash tax liability. The actual impact on 2023 cash tax liability will depend on the amount of research and development expenses paid or incurred in 2023 among other factors. While the largest impact of this provision will be to 2022 cash tax liability, the impact will continue over the five-year amortization period, but will decrease ratably over the period.

The Inflation Reduction Act ("IRA") was enacted into law on August 16, 2022. Included in the IRA was a provision to implement a 15% corporate alternative minimum tax on "adjusted financial statement income" for applicable corporations and a 1% excise tax on repurchases of stock. These provisions are effective for tax years beginning after December 31, 2022. We are in the process of evaluating the provisions of the IRA, but we do not currently believe the IRA will have a material impact on our reported results, cash flows or financial position when it becomes effective.

**Comparison of the year ended December 31, 2021 to the year ended December 31, 2020**

The following tables set forth, for the periods indicated, our net sales by geography, and the change between the specified periods expressed as a percentage increase or decrease:

	2021	2020	\$ Change	Percent change
	(\$ in thousands)			
Net sales	\$ 154,424	\$ 129,366	\$ 25,058	19%
Net sales by geography:				
Americas	\$ 102,265	\$ 81,470	\$ 20,795	26%
Europe, Middle East and Africa	42,132	39,193	2,939	7%
Asia Pacific	10,027	8,703	1,324	15%
Total	\$ 154,424	\$ 129,366	\$ 25,058	19%

As a general matter, the COVID-19 pandemic negatively impacted sales in 2020 more acutely than in 2021 in all geographies, though we believe that it continued to negatively impact sales throughout 2021.

**Net sales.** Net sales increased \$25.1 million, or 19%, to \$154.4 million for the year ended December 31, 2021, compared to \$129.4 million for the year ended December 31, 2020. The increase was driven largely by Artergraft bovine grafts, with increased sales of \$14.1 million. We acquired Artergraft on June 22, 2020, so we had six additional months of sales of Artergraft in 2021 as compared to 2020 and we also implemented a price increase in January 2021. We also had higher valvulotome sales of \$3.4 million, higher bovine carotid patch sales of \$2.4 million, higher carotid shunt sales of \$1.9 million, and higher allograft service revenues of \$1.8 million. We estimate that the weaker U.S. dollar increased sales by \$2.0 million during year ended December 31, 2021 as compared to year ended December 31, 2020.

Direct-to-hospital net sales were 94% of our total net sales for the year ended December 31, 2021, and 95% for the year ended December 31, 2020.

**Net sales by geography.** Net sales in the Americas increased \$20.8 million, or 26%, for the year ended December 31, 2021 as compared to December 31, 2020. The increase was driven mainly by Artergraft bovine grafts, with increased sales of \$14.1 million. We also had higher valvulotome sales of \$2.4 million, higher allografts service revenues of \$1.8 million, higher bovine carotid patch sales of \$1.5 million and higher carotid shunt sales of \$1.2 million. Offsetting these increases were lower bovine cardiac patch revenues of \$0.4 million. Revenues from all other products increased \$0.2 million on a net basis.

EMEA net sales increased \$2.9 million, or 7%, for the year ended December 31, 2021 as compared to December 31, 2020. The increase was driven by higher valvulotome sales of \$1.0 million, as well as higher carotid shunt sales of \$0.6 million, higher embolectomy catheter sales of \$0.5 million, higher bovine cardiac patch sales of \$0.4 million and higher ovine graft sales of \$0.3 million. These increases were offset in part by a decreases in sales of bovine carotid patches and polyester grafts of \$0.3 million each. EMEA revenues from all other products increased \$0.8 million on a net basis.

Asia Pacific net sales increased \$1.3 million, or 15%, for the year ended December 31, 2021 as compared to December 31, 2020, with bovine carotid patch sales increasing \$1.1 million, and embolectomy catheter sales, bovine cardiac patch sales and carotid shunt sales each increasing \$0.1 million. These and other product sales increases were partially offset by lower sales of TRIVEX powered phlebectomy systems of \$0.1 million.

The following table sets forth the change in our gross profit and gross margin for the periods indicated:

	2021	2020	Change	Percent change
	(\$ in thousands)			
Gross profit	\$ 101,382	\$ 84,618	\$ 16,764	20%
Gross margin	65.7%	65.4%	0.3%	*

\* Not a meaningful percentage.

**Gross Profit.** Gross profit increased \$16.8 million, or 20%, to \$101.4 million for the year ended December 31, 2021 as compared to December 31, 2020, while gross margin increased by 30 basis points to 65.7%. The increase in gross profit was driven partly by the impact in the prior period of purchase accounting from the Artegraft bovine graft acquisition. We also had a more favorable product mix in 2021 as compared to 2020, including higher Artegraft sales at an increased average selling price in 2021. This favorable impact was partly offset by manufacturing inefficiencies and higher excess and obsolescence expense by \$2.3 million in 2021 due in large part to the discontinuation or winding down of certain product lines including TRIVEX and remote endarterectomy devices.

In May 2021, our CE mark certifications required to sell products in many EMEA countries were reinstated for five products. However, we also simultaneously received a change in CE mark requirements for certain bovine carotid patches and polyester grafts. For bovine carotid patches, only bovine pericardium sourced from certain of our suppliers are permitted to be sold under the new CE mark, which caused our production costs to increase, and our gross margin to decrease.

### Operating Expenses

The following tables set forth changes in our operating expenses for the periods indicated and the change between the specified periods expressed as a percentage increase or decrease:

	2021	2020	\$ change	Percent change	2021 as a % of Net Sales	2020 as a % of Net Sales
	(\$ in thousands)					
Sales and marketing	\$ 27,655	\$ 23,700	\$ 3,955	17%	18%	18%
General and administrative	25,501	22,501	3,000	13%	17%	17%
Research and development	11,801	10,099	1,702	17%	8%	8%
Gain on divestitures and acquisitions	-	(470)	470	*	0%	(0%)
	<u>\$ 64,957</u>	<u>\$ 55,830</u>	<u>\$ 9,127</u>	16%	42%	43%

\* Not a meaningful percentage.

**Sales and marketing.** For the year ended December 31, 2021, sales and marketing expense increased 17% to \$27.7 million. The increase was driven by more sales personnel, as well as higher salaries and related expenses of \$3.5 million, including higher commissions due to increased sales, and higher recruiting costs. We also had higher marketing-related costs, such as product samples and promotional materials, of \$0.4 million, and higher travel and related expenses of \$0.1 million. As a percentage of net sales, sales and marketing expense was unchanged at 18% in both 2021 and 2020.

**General and administrative.** For the year ended December 31, 2021, general and administrative expenses increased 13% to \$25.5 million. The increase was primarily due to higher compensation and related expenses, as salaries were reinstated in September 2020 and personnel were rehired following the April 2020 reduction in force. We also had higher insurance costs, banking fees and professional fees in 2021. As a percentage of sales, general and administrative expense was unchanged at 17% for both comparative periods.

**Research and development.** For the year ended December 31, 2021, research and development expense increased \$1.7 million, or 17%, to \$11.8 million. Product development and process engineering expenses were on a combined basis unchanged, as those groups continue their focus on manufacturing transfer projects. Clinical and regulatory expenses, however, increased \$1.7 million, or 29%, driven by higher compensation expenses as well as consulting and other costs incurred in connection with reinstating or maintaining regulatory approvals, especially in Europe. As a percentage of sales, total research and development expense was unchanged at 8% in both years. Product development expenses decreased to 1% of sales for the year ended December 31, 2021, from 2% in the prior period.

**Gain on sale of building.** During the third quarter of 2020, in connection with our planned manufacturing transfer of our Omniflow II ovine biologic graft to Burlington, we sold our land and building located in North Melbourne, Australia. We recognized a gain on the sale during the three months ending September 30, 2020, net of applicable sales taxes and administrative costs, of \$0.5 million.

**Income tax expense.** We recorded a tax provision of \$7.4 million on pre-tax income of \$34.3 million for the twelve months ended December 31, 2021, compared to \$6.1 million on pre-tax income of \$27.4 million for the twelve months ended December 31, 2020.

Our effective income tax rate was 21.9% and 21.5% for the three- and twelve-month periods ended December 31, 2021. Our tax expense for 2021 is based on an estimated annual effective tax rate of 24.7%, adjusted in the applicable quarterly periods for discrete stock option exercises and other discrete items. Our income tax expense for 2021 varies from the statutory rate mainly due to federal and state tax credits, permanent items, different statutory rates from our foreign entities, and a discrete item for stock option exercises.

Our effective income tax rate was 21.2% and 22.4% for the three- and twelve-month periods ended December 31, 2020. Our 2020 provision was based on an estimated annual effective tax rate of 25.2%, adjusted in the applicable quarterly period for discrete stock option exercises and other discrete items. Our income tax expense for 2020 varied from the statutory rate mainly due to federal and state tax credits, permanent items, different statutory rates from our foreign entities, and a discrete item for stock option exercises.

We monitor the mix of profitability by tax jurisdiction and adjust our annual expected rate on a quarterly basis as needed. While it is often difficult to predict the final outcome or timing of the resolution for any particular tax matter, we believe our tax reserves reflect the probable outcome of known contingencies.

We assess the likelihood that our deferred tax assets will be realized through future taxable income and record a valuation allowance to reduce gross deferred tax assets to an amount we believe is more likely than not to be realized. As of December 31, 2021, we have provided a valuation allowance of \$1.7 million for deferred tax assets primarily related to Australian net operating loss and capital loss carry forwards and Massachusetts tax credit carry forwards that are not expected to be realized.

## **Liquidity and Capital Resources**

At December 31, 2022, our cash and cash equivalents were \$19.1 million as compared to \$13.9 million at December 31, 2021. We also had \$63.6 million in short-term marketable securities as of December 31, 2022 and \$56.1 million as of December 31, 2021. Our cash and cash equivalents are highly liquid investments with maturities of 90 days or less at the date of purchase, and consist primarily of operating bank accounts. Our short-term marketable securities consist of a managed income mutual fund investing mainly in short-term investment grade, U.S.-dollar denominated fixed and floating-rate debt, and a short-duration bond fund. At December 31, 2022 our short-term marketable securities reflected an unrealized loss of \$1.8 million as a result of increasing market interest rates.

On July 16, 2021, we closed an offering of 1,000,000 shares of our common stock, \$0.01 par value per share, at a price to the public of \$54.50 per share less underwriting discounts. The net proceeds, after deducting the underwriting discounts and other offering expenses, were approximately \$51.0 million. We used a portion of the proceeds from the offering to repay our outstanding debt. We plan to use the remaining proceeds for general corporate purposes, including working capital needs and capital expenditures, dividend payments, deferred payments related to prior acquisitions, and the funding of future acquisitions. On August 4, 2021, the underwriters purchased an additional 150,000 shares pursuant to an option granted to them in connection with the offering described above. The net proceeds to the Company, after deducting underwriting discounts and other offering expenses, were approximately \$7.6 million. We plan to use the proceeds for general corporate purposes.

On February 21, 2023, our Board of Directors authorized the repurchase of up to \$25.0 million of the Company's common stock through transactions on the open market, in privately negotiated purchases or otherwise until February 21, 2024. The repurchase program may be suspended or discontinued at any time. To date we have not made any repurchases under this program.

In June 2020, in connection with the Artegraft acquisition, we incurred debt of \$65 million including a five-year revolving line of credit of \$25 million and a five-year term loan of \$40 million. The loans bore interest at either the Base Rate as defined in the agreement plus an applicable margin of 1.25% to 1.75% depending on our consolidated leverage ratio, or the Eurodollar Rate plus an applicable margin of 2.25% to 2.75% depending on our consolidated leverage ratio. In July 2021, we repaid the balance under the term loan, plus accrued interest, in full.

In November 2021, we terminated the credit agreement, including the revolving line of credit, as allowed for in the original agreement.

### *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 \$26.8 million for the year ended December 31, 2022, \$36.4 million for the year ended December 31, 2021, and \$28.8 million for the year ended December 31, 2020. 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 and services;
- payments associated with potential future quarterly cash dividends to our common stockholders;
- future acquisition-related payments;
- payments associated with 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 U.S. FDA and other regulatory clearances of our existing and future products;
- the costs associated with obtaining European MDR clearances for our existing and future products;
- the number, timing, and nature of acquisitions, divestitures and other strategic transactions, and
- potential future share repurchases.

Our cash balances may decrease as we continue to use cash to fund our operations, make acquisitions, pay dividends, 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 and to meet our known long-term cash requirements. 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 take out a loan. The sale of additional equity and debt securities may result in dilution to our stockholders, as was the case with our July 2021 equity offering. 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 December 31,		
	2022	2021	2020
	(\$ in thousands)		
Cash and cash equivalents	\$ 19,134	\$ 13,855	\$ 26,764
Cash flows provided by (used in):			
Operating activities	\$ 25,378	\$ 35,102	\$ 34,800
Investing activities	(10,371)	(61,076)	(52,891)
Financing activities	(9,234)	13,702	32,155

**Net cash provided by operating activities.** Net cash provided by operating activities was \$25.4 million for the year ended December 31, 2022, and consisted of \$20.6 million net income, adjusted for non-cash items of \$18.1 million (including primarily depreciation and amortization of \$9.4 million, stock-based compensation of \$4.2 million, provisions for inventory write-offs and doubtful accounts of \$3.2 million, and loss on divestitures of \$2.0 million, offset by foreign currency transaction effect on income of \$0.3 million, benefit for deferred income taxes of \$0.2 million, gain on sale of building of \$0.1 million, and fair value adjustments on contingent consideration for acquisitions of \$0.1 million), as well as cash used for working capital of \$13.4 million. The net cash used for working capital was driven by increases in inventory and other deferred costs of \$7.4 million, increases in accounts receivable of \$3.5 million, and increases in prepaid and other assets of \$3.1 million, offset by increases in accounts payable and other liabilities of \$0.6 million.

Net cash provided by operating activities was \$35.1 million for the year ended December 31, 2021, and consisted of \$26.9 million net income, adjusted for non-cash items of \$18.1 million (including primarily depreciation and amortization of \$11.1 million, stock-based compensation of \$3.5 million, provisions for inventory write-offs and doubtful accounts of \$4.0 million, offset by fair value adjustments on contingent consideration for acquisitions of \$0.7 million), as well as cash used for working capital of \$9.9 million. The net cash used for working capital was driven by increases in inventory and other deferred costs of \$5.5 million, increases in prepaid and other assets of \$1.9 million, a decrease in accounts payable and accrued expenses of \$1.7 million and an increase in accounts receivable of \$0.8 million.

Net cash provided by operating activities was \$34.8 million for the year ended December 31, 2020, and consisted of \$21.2 million net income, adjusted for non-cash items of \$12.7 million (including primarily depreciation and amortization of \$8.4 million, stock-based compensation of \$3.0 million, provisions for inventory write-offs and doubtful accounts of \$1.8 million, and fair value adjustments on contingent consideration for acquisitions of \$0.2 million, offset by a benefit from deferred taxes of \$0.3 million, and a gain on the sale of a building of \$0.5 million) as well as cash from working capital of \$0.9 million. The net cash generated from working capital was driven by increases in accounts payable and other liabilities of \$4.3 million, offset by increases in inventory and other deferred costs of \$2.6 million and accounts receivable of \$0.9 million.

**Net cash used in investing activities.** Net cash used in investing activities was \$10.4 million for the year ended December 31, 2022, including purchases of marketable securities of \$8.0 million and purchases of property and equipment of \$3.2 million, offset by proceeds from the sale of the St. Etienne, France building of \$0.9 million.

Net cash used in investing activities was \$61.1 million for the year ended December 31, 2021, including net sales of marketable securities of \$56.2 million and purchases of property and equipment of \$4.9 million.

Net cash used in investing activities was \$52.9 million for the year ended December 31, 2020, including acquisition-related payments of \$72.6 million primarily associated with the purchase of Artegraft and expenditures on property, equipment and technology of \$3.0 million, offset by net sales of marketable securities of \$20.7 million and proceeds from the sale of the North Melbourne, Australia building of \$2.0 million.

**Net cash provided by (used in) financing activities.** Net cash used in financing activities was \$9.2 million for the year ended December 31, 2022. Use of cash included dividend payments of \$11.0 million and deferred payments for acquisitions of \$1.1 million. These uses of cash were offset by proceeds from stock option exercises of \$2.8 million, net of shares repurchased to cover employee payroll taxes on restricted stock unit (RSU) vestings.

Net cash provided by financing activities was \$13.7 million for the year ended December 31, 2021. Sources of cash included primarily net proceeds from an equity offering of \$58.7 million and proceeds from stock option exercises of \$3.7 million, net of shares repurchased to cover employee payroll taxes on RSU vestings. These sources of cash were offset by payments made on our long-term debt of \$39.0 million, dividend payments of \$9.3 million and deferred payments for acquisitions of \$0.4 million.

Net cash provided by financing activities was \$32.2 million for the year ended December 31, 2020, consisting primarily of borrowings of \$63.2 million net of debt issuance costs and stock option exercises proceeds of \$5.4 million, net of shares repurchased to cover employee payroll taxes. These increases to cash were partly offset by dividend payments of \$7.7 million, debt payments of \$26.0 million and deferred payments for acquisitions of \$2.8 million.

### **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:

<u>Record Date</u>	<u>Payment Date</u>	<u>Per Share Amount</u>	<u>Dividend Payment</u> (in thousands)
<b>Fiscal Year 2022</b>			
March 8, 2022	March 24, 2022	\$ 0.125	\$ 2,743
May 17, 2022	June 2, 2022	\$ 0.125	\$ 2,745
August 25, 2022	September 8, 2022	\$ 0.125	\$ 2,750
November 17, 2022	December 1, 2022	\$ 0.125	\$ 2,750
<b>Fiscal Year 2021</b>			
March 9, 2021	March 25, 2021	\$ 0.110	\$ 2,262
May 19, 2021	June 3, 2021	\$ 0.110	\$ 2,267
August 26, 2021	September 9, 2021	\$ 0.110	\$ 2,401
November 19, 2021	December 2, 2021	\$ 0.110	\$ 2,405

On February 21, 2023, our Board of Directors approved a quarterly cash dividend on our common stock of \$0.14 per share payable on March 23, 2023, to stockholders of record at the close of business on March 9, 2023, which will total approximately \$3.1 million.

### **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 revenue recognition, inventory valuation, valuation of intangible assets and goodwill, contingent consideration 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, and, during the periods presented in our consolidated financial statements, entered into consigned inventory arrangements with either hospitals or distributors on a limited basis. We also derive revenues from the processing and cryopreservation of human tissue 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 record revenue under the provisions of ASU 2014-09, *Revenue from Contracts with Customers (Topic 606)*. The core principle of Topic 606 is that an entity should recognize revenue to depict the transfer of goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. The standard explains that to achieve the core principle, an entity should take the following actions:

Step 1: Identify the contract with a customer

Step 2: Identify the performance obligations in the contract

Step 3: Determine the transaction price

Step 4: Allocate the transaction price

Step 5: Recognize revenue when or as the entity satisfies a performance obligation

Revenue is recognized when or as a company satisfies a performance obligation by transferring a promised good or service to a customer (which is when the customer obtains control of that good or service). In instances in which shipping and handling activities are performed after a customer takes control of the goods (such as when title passes upon shipment from our dock), we have made the policy election allowed under Topic 606 to account for these activities as fulfillment costs and not as performance obligations.

We generally reference customer purchase orders to determine the existence of a contract. Orders that are not accompanied by a purchase order are confirmed with the customer either in writing or verbally. The purchase orders or similar correspondence, once accepted, identify the performance obligations as well as the transaction price, and otherwise outline the rights and obligations of each party. We allocate the transaction price of each contract among the performance obligations in accordance with the pricing of each item specified on the purchase order, which is in turn based on standalone selling prices per our published price lists. In cases where we discount products or provide certain items free of charge, we allocate the discount proportionately to all performance obligations, unless it can be demonstrated that the discount should be allocated entirely to one or more, but not all, of the performance obligations.

We record revenue, net of allowances for returns and discounts, fees paid to group purchasing organizations, and any sales and value added taxes required to be invoiced, which we have elected to exclude from the measurement of the transaction price as allowed by the standard, at the time of shipment (taking into consideration contractual shipping terms), or in the case of consigned inventory, when it is consumed. Shipment is the point at which control of the product and title passes to our customers, and at which LeMaitre has a present right to receive payment for the goods.

We do not carry any contract assets or contract liabilities, as there are generally no unbilled amounts due from customers under contracts for which we have partially satisfied performance obligations, or amounts received from customers for which we have not satisfied performance obligations. We satisfy our performance obligations under revenue contracts within a short time period from receipt of the orders, and payments from customers are typically received within 30 to 60 days of fulfillment of the orders, except in certain geographies such as Spain and France where the payment cycle is customarily longer. Accordingly, there is no significant financing component to our revenue contracts. Additionally, we have elected as a policy that incremental costs (such as commissions) incurred to obtain contracts are expensed as incurred, due to the short-term nature of the contracts.

Customers returning products may be 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, which requires judgment. Our cost of replacing defective products has not been material and is accounted for at the time of replacement.

### ***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.

### ***Valuation of Intangible Assets and Goodwill***

Intangible assets consist primarily of purchased developed technology, patents, customer relationships and trademarks, and are amortized over their estimated useful lives, ranging from 2 to 16 years. Goodwill represents the amount of consideration paid in connection with business acquisitions in excess of the fair value of assets acquired and liabilities assumed. 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 \$46.5 million as of December 31, 2022 and \$52.7 million as of December 31, 2021. Goodwill was \$65.9 million as of both December 31, 2022 and December 31, 2021.

### ***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, business acquisitions, employment, commercial matters, intellectual property matters, 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, 2022, 2021, and 2020, we were not subject to any material litigation, claims or assessments.

In connection with certain of our acquisitions, we may enter into agreements to pay additional future consideration upon the satisfaction of certain agreed-upon criteria. We record liabilities for these arrangements at estimated fair value reflecting management's assumptions of the likelihood of achieving the specified criteria at the time of the closing, which may require significant judgment. These amounts are remeasured each reporting period, with any adjustments recorded in income from operations.

### ***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.

## **Recent Accounting Pronouncements**

From time to time, new accounting pronouncements are issued by the Financial Accounting Standards Board (FASB) or other standard setting bodies and are generally adopted by the Company as of a specified effective date. Unless otherwise discussed, the Company believes that the impact of recently issued standards that are not yet effective will not have a material impact on its financial position or results of operations upon adoption.

## **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.

### *Foreign Currency Risk*

During both fiscal 2022 and 2021, 39% of our total revenue was from customers outside of the U.S. In addition, a significant portion of our operating costs incurred outside the U.S. 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 did not do so during 2022 or 2021. Our largest exposures to foreign currency exchange rates exist primarily with the Euro, British pound, Canadian dollar, Australian dollar and Japanese yen.

During the years ended December 31, 2022 and 2021, we recorded \$0.4 million and \$0.1 million of net foreign currency exchange losses, respectively, 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 \$2.2 million for 2022.

### *Interest Rate Risk*

At December 31, 2022, we held \$19.1 million in cash and cash equivalents and \$63.6 million in a short-term managed income mutual fund investment. We believe that a hypothetical 10% increase or decrease in interest rates could have a material impact on our cash balances and financial position, results of operations or cash flows. At December 31, 2022 our short-term marketable securities reflected an unrealized loss of \$1.8 million as a result of increasing market interest rates.

## **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, which are incorporated by reference herein.

## **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. We design our disclosure controls and procedures to ensure, at reasonable assurance levels, that such information is timely recorded, processed, summarized and reported, and then accumulated and communicated appropriately.

Based on an evaluation of our disclosure controls and procedures as of December 31, 2022, our Chief Executive Officer and Chief Financial Officer concluded that, as of such date, our disclosure controls and procedures were effective at reasonable assurance levels.

### **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, 2022. 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.

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, 2022.

Our internal control over financial reporting as of December 31, 2022 has been audited by Grant Thornton LLP, an independent registered public accounting firm, as stated in their respective report which is included herein.

### **Changes in 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, 2022 that has materially affected, or is reasonably likely to materially affect our internal control over financial reporting.

### **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 Stockholders  
LeMaitre Vascular, Inc.

### **Opinion on internal control over financial reporting**

We have audited the internal control over financial reporting of LeMaitre Vascular, Inc. (a Delaware corporation) and subsidiaries (the “Company”) as of December 31, 2022, based on criteria established in the 2013 *Internal Control—Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (“COSO”). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2022, 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) (“PCAOB”), the consolidated financial statements of the Company as of and for the year ended December 31, 2022, and our report dated March 1, 2023 expressed an unqualified opinion on those financial statements.

### **Basis for opinion**

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. Our responsibility is to express an opinion on the Company’s internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. 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.

### **Definition and limitations of internal control over financial reporting**

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.

/s/ GRANT THORNTON LLP

Boston, Massachusetts  
March 1, 2023

**Item 9B. Other Information**

Not Applicable.

**Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections**

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 2023 definitive proxy statement (2023 Definitive Proxy Statement) for the 2023 annual meeting of stockholders to be filed with the Securities and Exchange Commission within 120 days after the fiscal year ended December 31, 2022.

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 “Delinquent Section 16(a) Reports” in our 2023 Definitive Proxy Statement, to the extent required to be included.

**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 2023 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 2023 Definitive Proxy Statement.

**Equity Compensation Plan Information**

The following table sets forth information regarding our equity compensation plans in effect as of December 31, 2022. 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.

Plan category	Number of securities to be issued upon exercise of outstanding options, warrants and rights	Weighted-average exercise price of outstanding options, warrants and rights	Number of securities remaining available for future issuance under equity compensation plans, excluding securities reflected in column (a)
	(a)	(b)	(c)
<i>Equity compensation plans approved by security holders</i>	1,021,592	\$ 38.43	438,478
<i>Equity compensation plans not approved by security holders</i>	-	-	-
<b>Total</b>	<b>1,021,592</b>	<b>\$ 38.43</b>	<b>438,478</b>

**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 2023 Definitive Proxy Statement.

**Item 14. Principal Accountant 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 2023 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) All financial statement schedules are omitted because they are not applicable or the required information is shown in the financial statements or notes thereto.
- (3) Exhibits

Exhibit Number	Exhibit Description	Incorporated By Reference			Filed Herewith
		Form	Date	SEC File Number	
2.3	<a href="#">Asset Purchase Agreement dated October 11, 2019 between the Registrant and Admedus Ltd and certain of its subsidiaries</a>	10-K	3/12/20	001-33092	
2.4	<a href="#">Amendment No. 1 to Asset Purchase Agreement dated October 11, 2019 between the Registrant and Admedus Ltd(now known as Anteris Technologies Ltd) and certain of its subsidiaries.</a>	8-K	9/1/21	001-33092	
2.5^	<a href="#">Asset Purchase Agreement, dated June 22, 2020, by and between the Company and Artegraft, Inc.</a>	8-K	6/24/20	001-33092	
3.1	<a href="#">Amended and Restated By-laws of the Registrant</a>	S-1/A	5/26/06	001-33092	
3.2	<a href="#">Second Amended and Restated Certificate of Incorporation of the Registrant</a>	10-K	3/29/10	001-33092	
3.3	<a href="#">Amendment to Second Amended and Restated Certificate of Incorporation of the Registrant</a>	8-K	6/15/12	001-33092	
4.1	<a href="#">Specimen Certificate evidencing shares of common stock</a>	S-1/A	6/22/06	333-133532	

Exhibit Number	Exhibit Description	Incorporated By Reference			Filed Herewith
		Form	Date	SEC File Number	
4.2	<a href="#">Description of Securities Registered pursuant to Section 12 of the Securities Exchange Act of 1934, as amended</a>	10-K	3/12/20	001-33092	
10.1	<a href="#">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</a>	S-1	4/25/06	333-133532	
10.2	<a href="#">Director Compensation Policy</a>	10-Q	8/5/21	001-33092	
10.3†	<a href="#">Executive Retention and Severance Agreement dated October 10, 2005, by and between the Registrant and George W. LeMaitre</a>	S-1/A	5/26/06	333-133532	
10.4†	<a href="#">Employment Agreement dated June 20, 2006, by and between the Registrant and David Roberts</a>	S-1/A	6/22/06	333-133532	
10.5†	<a href="#">Employment Agreement dated April 20, 2006, by and between the Registrant and Joseph P. Pellegrino</a>	S-1/A	6/22/06	333-133532	
10.6†	<a href="#">Form of Indemnification Agreement between the Registrant and its directors and executive officers</a>	S-1/A	5/26/06	333-133532	
10.7	<a href="#">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</a>	8-K	6/15/07	001-33092	
10.8	<a href="#">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</a>	8-K	4/10/08	001-33092	
10.9	<a href="#">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</a>	10-K	3/31/09	001-33092	
10.10†	<a href="#">First Amendment to Executive Retention and Severance Agreement dated December 23, 2008, by and between the Registrant and George W. LeMaitre</a>	10-K	3/31/09	001-33092	
10.11†	<a href="#">First Amendment to Employment Agreement dated December 19, 2008, by and between the Registrant and David Roberts</a>	10-K	3/31/09	001-33092	
10.12†	<a href="#">First Amendment to Employment Agreement dated December 19, 2008, by and between the Registrant and Joseph P. Pellegrino</a>	10-K	3/31/09	001-33092	
10.13	<a href="#">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</a>	10-K	3/29/10	001-33092	

Exhibit Number	Exhibit Description	Incorporated By Reference			Filed Herewith
		Form	Date	SEC File Number	
10.14	<a href="#">Northwest Park Lease dated March 23, 2010, by and between Rodger P. Nordblom and Peter C. Nordblom, as Trustees of Northwest Associates, and Registrant</a>	10-K	3/29/10	001-33092	
10.15	<a href="#">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</a>	10-K	3/27/12	001-33092	
10.16	<a href="#">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</a>	10-K	3/27/12	001-33092	
10.17	<a href="#">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</a>	10-K	3/27/13	001-33092	
10.18	<a href="#">Lease dated December 20, 2013, by and between N.W. Building 3 Trust and Registrant</a>	8-K	12/23/13	001-33092	
10.19	<a href="#">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</a>	8-K	12/23/13	001-33092	
10.20	<a href="#">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</a>	8-K	12/23/13	001-33092	
10.21†	<a href="#">Amended and Restated Management Incentive Compensation Plan</a>	8-K	2/25/14	001-33092	
10.22†	<a href="#">Third Amended and Restated 2006 Stock Option and Incentive Plan</a>	8-K	6/8/15	001-33092	
10.23†	<a href="#">Form of Restricted Stock Unit Award Agreement under the LeMaitre Vascular, Inc. 2006 Stock Option And Incentive Plan</a>	8-K	3/9/18	001-33092	
10.24†	<a href="#">Form of Incentive Stock Option Agreement under the LeMaitre Vascular, Inc. 2006 Stock Option And Incentive Plan</a>	10-K	3/9/18	001-33092	
10.25†	<a href="#">Form of Non-Qualified Stock Option Agreement (Employees) under the LeMaitre Vascular, Inc. 2006 Stock Option And Incentive Plan</a>	10-K	3/9/18	001-33092	
10.26	<a href="#">Form of Non-Qualified Stock Option Agreement (Non-Employee Directors) under the LeMaitre Vascular, Inc. 2006 Stock Option And Incentive Plan</a>	10-K	3/9/18	001-33092	
10.28^	<a href="#">License Agreement dated October 11, 2019 between the Registrant and Admedus Ltd and certain of its subsidiaries</a>	10-K	3/12/20	001-33092	

Exhibit Number	Exhibit Description	Incorporated By Reference			Filed Herewith
		Form	Date	SEC File Number	
10.29	<a href="#">First Amendment of Lease dated October 29, 2019 between NWP BUILDING 3 LLC and the Registrant</a>	8-K	11/1/19	001-33092	
10.30	<a href="#">Fifth Amendment of Lease dated October 29, 2019 between NWP BUILDING 4 LLC and the Registrant</a>	8-K	11/1/19	001-33092	
10.31	<a href="#">Seventh Amendment of Lease dated October 29, 2019 between NWP BUILDING 5 LLC and the Registrant</a>	8-K	11/1/19	001-33092	
10.32	<a href="#">Lease dated November 26, 2019 between NWP Retail 18 LLC and the Registrant.</a>	8-K	12/3/19	001-33092	
10.35†	<a href="#">Eighth Amended and Restated Equity Award Grant Policy</a>	8-K	7/9/21	001-33092	
10.36†	<a href="#">Form of Restricted Stock Unit Award Agreement – Performance Based Award under the LeMaitre Vascular, Inc. 2006 Stock Option And Incentive Plan</a>	10-K	2/28/22	001-33092	
21.1	<a href="#">List of Subsidiaries</a>				X
23.1	<a href="#">Consent of Grant Thornton LLP</a>				X
24.1	<a href="#">Power of Attorney (included on the Signatures page of this Annual Report on Form 10-K).</a>				X
31.1	<a href="#">Certification of Chief Executive Officer, as required by Rule 13a-14(a) or Rule 15d-14(a).</a>				X
31.2	<a href="#">Certification of Chief Financial Officer, as required by Rule 13a-14(a) or Rule 15d-14(a).</a>				X
32.1*	<a href="#">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).</a>				X
32.2*	<a href="#">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).</a>				X
101.INS	Inline XBRL Instance Document.				X
101.SCH	Inline XBRL Taxonomy Extension Schema Document.				X
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document.				X
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document.				X
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document.				X
101.PRE	Inline XRBL Taxonomy Extension Presentation Linkbase Document.				X
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101).				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.

^ Portions of the exhibit (indicated by “[\*\*\*]”) have been omitted because they are not material and is the type that LeMaitre Vascular, Inc. treats as private and confidential.

**Item 16. Form 10-K Summary.**

Not applicable.

**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 1, 2023.

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.

<b>Signature</b>	<b>Title</b>	<b>Date</b>
<u>                  /s/ GEORGE W. LEMAITRE</u> <b>George W. LeMaitre</b>	Chief Executive Officer and Chairman of the Board <i>(Principal Executive Officer)</i>	March 1, 2023
<u>                  /s/ JOSEPH P. PELLEGRINO, JR.</u> <b>Joseph P. Pellegrino, Jr.</b>	Chief Financial Officer <i>(Principal Financial and Accounting Officer)</i> and Director	March 1, 2023
<u>                  /s/ LAWRENCE J. JASINSKI</u> <b>Lawrence J. Jasinski</b>	Director	March 1, 2023
<u>                  /s/ JOHN J. O'CONNOR</u> <b>John J. O'Connor</b>	Director	March 1, 2023
<u>                  /s/ DAVID B. ROBERTS</u> <b>David B. Roberts</b>	President and Director	March 1, 2023
<u>                  /s/ JOHN A. ROUSH</u> <b>John A. Roush</b>	Director	March 1, 2023
<u>                  /s/ BRIDGET A. ROSS</u> <b>Bridget A. Ross</b>	Director	March 1, 2023
<u>                  /s/ MARTHA M. SHADAN</u> <b>Martha M. Shadan</b>	Director	March 1, 2023

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**REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

Board of Directors and Stockholders  
LeMaitre Vascular, Inc.

**Opinion on the financial statements**

We have audited the accompanying consolidated balance sheets of LeMaitre Vascular, Inc. (a Delaware corporation) and subsidiaries (the “Company”) as of December 31, 2022 and 2021, the related consolidated statements of operations, comprehensive income, changes in stockholders’ equity, and cash flows for each of the three years in the period ended December 31, 2022, and the related notes (collectively referred to as the “financial statements”). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2022 and 2021, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2022, 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) (“PCAOB”), the Company’s internal control over financial reporting as of December 31, 2022, 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 1, 2023 expressed an unqualified opinion.

**Basis for opinion**

These financial statements are the responsibility of the Company’s management. Our responsibility is to express an opinion on the Company’s financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

**Critical audit matters**

Critical audit matters are matters arising from the current period audit of the financial statements that were communicated or required to be communicated to the audit committee and that: (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. We determined that there are no critical audit matters.

/s/ GRANT THORNTON LLP

We have served as the Company’s auditor since 2015.

Boston, Massachusetts  
March 1, 2023

**LeMaitre Vascular, Inc.**  
**Consolidated Balance Sheets**

	<b>December 31, 2022</b>	<b>December 31, 2021</b>
(in thousands, except share data)		
<b>Assets</b>		
<b>Current assets:</b>		
Cash and cash equivalents	\$ 19,134	\$ 13,855
Short-term marketable securities	63,557	56,104
Accounts receivable, net of allowances of \$835 at December 31, 2022 and \$679 at December 31, 2021	22,040	19,631
Inventory and other deferred costs	50,271	46,104
Prepaid expenses and other current assets	6,731	4,189
<b>Total current assets</b>	<b>161,733</b>	<b>139,883</b>
Property and equipment, net	17,901	17,059
Right-of-use leased assets	15,634	15,071
Goodwill	65,945	65,945
Other intangibles, net	46,527	52,710
Deferred tax assets	1,745	1,566
Other assets	991	568
<b>Total assets</b>	<b>\$ 310,476</b>	<b>\$ 292,802</b>
<b>Liabilities and stockholders' equity</b>		
<b>Current liabilities:</b>		
Accounts payable	\$ 2,903	\$ 2,340
Accrued expenses	19,967	16,332
Acquisition-related obligations	573	1,271
Lease liabilities - short-term	1,886	1,870
<b>Total current liabilities</b>	<b>25,329</b>	<b>21,813</b>
Lease liabilities - long-term	14,710	14,067
Deferred tax liabilities	69	70
Other long-term liabilities	2,167	2,701
<b>Total liabilities</b>	<b>42,275</b>	<b>38,651</b>
<b>Stockholders' equity:</b>		
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 23,655,716 shares at December 31, 2022, and 23,477,784 shares at December 31, 2021	237	235
Additional paid-in capital	189,268	181,630
Retained earnings	97,773	88,125
Accumulated other comprehensive loss	(6,031)	(3,435)
Treasury stock, at cost; 1,568,595 shares at December 31, 2022 and 1,554,905 shares at December 31, 2021	(13,046)	(12,404)
<b>Total stockholders' equity</b>	<b>268,201</b>	<b>254,151</b>
<b>Total liabilities and stockholders' equity</b>	<b>\$ 310,476</b>	<b>\$ 292,802</b>

See accompanying notes to consolidated financial statements.

**LeMaitre Vascular, Inc.**  
**Consolidated Statements of Operations**

	<b>Year ended December 31,</b>		
	<b>2022</b>	<b>2021</b>	<b>2020</b>
	(in thousands, except per share data)		
Net sales	\$ 161,651	\$ 154,424	\$ 129,366
Cost of sales	56,755	53,042	44,748
Gross profit	104,896	101,382	84,618
Sales and marketing	32,921	27,655	23,700
General and administrative	28,745	25,501	22,501
Research and development	13,294	11,801	10,099
Restructuring	3,107	-	-
Gain on sale of building	-	-	(470)
Total operating expenses	78,067	64,957	55,830
Income from operations	26,829	36,425	28,788
Other income (expense):			
Interest income	986	197	207
Interest expense	-	(2,219)	(1,310)
Other income (loss), net	(325)	(116)	(329)
Income before income taxes	27,490	34,287	27,356
Provision for income taxes	6,854	7,380	6,136
Net income	<u>\$ 20,636</u>	<u>\$ 26,907</u>	<u>\$ 21,220</u>
Earnings per share of common stock:			
Basic	<u>\$ 0.94</u>	<u>\$ 1.27</u>	<u>\$ 1.05</u>
Diluted	<u>\$ 0.93</u>	<u>\$ 1.25</u>	<u>\$ 1.04</u>
Weighted-average shares outstanding:			
Basic	<u>21,975</u>	<u>21,157</u>	<u>20,246</u>
Diluted	<u>22,171</u>	<u>21,475</u>	<u>20,479</u>
Cash dividends declared per common share	<u>\$ 0.50</u>	<u>\$ 0.44</u>	<u>\$ 0.38</u>

See accompanying notes to consolidated financial statements.

**LeMaitre Vascular, Inc.**  
**Consolidated Statements of Comprehensive Income**

	<b>Year ended December 31,</b>		
	<b>2022</b>	<b>2021</b>	<b>2020</b>
Net income	\$ 20,636	\$ 26,907	\$ 21,220
Other comprehensive income (loss):			
Foreign currency translation adjustment, net	(1,071)	(1,604)	2,468
Unrealized gain (loss) on short-term marketable securities	(1,525)	(306)	14
Total other comprehensive income (loss)	(2,596)	(1,910)	2,482
Comprehensive income	<u>\$ 18,040</u>	<u>\$ 24,997</u>	<u>\$ 23,702</u>

See accompanying notes to consolidated financial statements.

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

	Common Stock		Additional Paid-in Capital	Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Treasury Stock		Total Stockholders' Equity
	Shares	Amount				Shares	Amount	
Balance at December 31, 2019	21,678,927	217	105,934	57,029	(4,007)	1,522,035	(11,032)	148,141
Net income				21,220				21,220
Other comprehensive income (loss)					2,482			2,482
Issuance of common stock for stock options exercised	331,958	3	5,968					5,971
Vested restricted stock units	50,669	1	-					1
Stock-based compensation expense			3,022					3,022
Repurchase of common stock for net settlement of equity awards						16,537	(570)	(570)
Common stock cash dividend paid				(7,695)				(7,695)
Balance at December 31, 2020	22,061,554	221	114,924	70,554	(1,525)	1,538,572	(11,602)	172,572
Net income				26,907				26,907
Other comprehensive income (loss)					(1,910)			(1,910)
Issuance of common stock, net of issuance costs	1,150,000	12	58,683					58,695
Issuance of common stock for stock options exercised	217,121	2	4,544					4,546
Vested restricted stock units	49,109	-	-					-
Stock-based compensation expense			3,479					3,479
Repurchase of common stock for net settlement of equity awards						16,333	(802)	(802)
Common stock cash dividend paid				(9,336)				(9,336)
Balance at December 31, 2021	23,477,784	\$ 235	\$ 181,630	\$ 88,125	\$ (3,435)	1,554,905	\$ (12,404)	\$ 254,151
Net income				20,636				20,636
Other comprehensive income (loss)					(2,596)			(2,596)
Issuance of common stock for stock options exercised	133,963	1	3,465					3,466
Vested restricted stock units	43,969	1	-					1
Stock-based compensation expense			4,173					4,173
Repurchase of common stock for net settlement of equity awards						13,690	(642)	(642)
Common stock cash dividend paid				(10,988)				(10,988)
Balance at December 31, 2022	23,655,716	\$ 237	\$ 189,268	\$ 97,773	\$ (6,031)	1,568,595	\$ (13,046)	\$ 268,201

See accompanying notes to consolidated financial statements.

**LeMaitre Vascular, Inc.**  
**Consolidated Statements of Cash Flows**

	Year ended December 31,		
	2022	2021	2020
	(in thousands)		
<b>Operating activities</b>			
Net income	\$ 20,636	\$ 26,907	\$ 21,220
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization	9,433	11,070	8,395
Stock-based compensation	4,173	3,479	3,022
Fair value adjustments to contingent consideration obligations	(108)	(674)	182
Provision for doubtful accounts and allowances	637	263	293
Provision for inventory write-downs	2,572	3,779	1,523
Provision (benefit) for deferred income taxes	(182)	79	(328)
Gain on sale of building	(115)	-	(470)
Loss on divestitures	1,954	-	-
Loss on disposal of PP&E	95	-	-
Foreign currency transaction effect on income	(315)	163	100
Changes in operating assets and liabilities:			
Accounts receivable	(3,533)	(818)	(939)
Inventory and other deferred costs	(7,418)	(5,485)	(2,609)
Prepaid expenses and other assets	(3,096)	(1,927)	89
Accounts payable and other liabilities	645	(1,734)	4,322
Net cash provided by operating activities	25,378	35,102	34,800
<b>Investing activities</b>			
Purchases of property and equipment	(3,229)	(4,882)	(2,982)
Proceeds from sale of building	858	-	2,023
Payments related to acquisitions	-	-	(72,627)
Purchases of short-term marketable securities	(8,000)	(59,194)	(2,205)
Proceeds from sales of marketable securities	-	3,000	22,900
Net cash used in investing activities	(10,371)	(61,076)	(52,891)
<b>Financing activities</b>			
Payment of deferred acquisition consideration	(1,070)	(401)	(2,800)
Proceeds from revolving line of credit	-	-	25,000
Proceeds from issuance of long-term debt	-	-	40,000
Payments of revolving line of credit	-	-	(25,000)
Payments of long-term debt	-	(39,000)	(1,000)
Payment of deferred debt issuance costs	-	-	(1,751)
Proceeds from issuance of common stock	3,466	63,241	5,971
Purchase of treasury stock for net settlement of equity awards	(642)	(802)	(570)
Common stock cash dividend paid	(10,988)	(9,336)	(7,695)
Net cash provided by (used in) financing activities	(9,234)	13,702	32,155
Effect of exchange rate changes on cash and cash equivalents	(494)	(637)	914
Net increase (decrease) in cash and cash equivalents	5,279	(12,909)	14,978
Cash and cash equivalents at beginning of year	13,855	26,764	11,786
Cash and cash equivalents at end of year	\$ 19,134	\$ 13,855	\$ 26,764
Supplemental disclosures of cash flow information (see Notes 7 and 10).			

See accompanying notes to consolidated financial statements.

**LeMaitre Vascular, Inc.**  
**Notes to Consolidated Financial Statements**  
**December 31, 2022**

## **1. Significant Accounting Policies and Related Matters**

### ***Description of Business***

Unless the context requires otherwise, references to LeMaitre, 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: anastomotic clips, angioscopes, biologic vascular and dialysis grafts, biologic vascular and cardiac patches, carotid shunts, embolectomy catheters, occlusion catheters, radiopaque marking tape, synthetic vascular grafts and valvulotomes. Our offices and production facilities are located in Burlington, Massachusetts; Fox River Grove, Illinois; North Brunswick, New Jersey; Chandler, Arizona; Vaughan, Canada; Sulzbach, Germany; Milan, Italy; Madrid, Spain; Hereford, England; Kensington, Australia; Tokyo, Japan; Shanghai, China; Singapore; and Seoul, Korea.

### ***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, Bio Nova International Pty Ltd, LeMaitre Vascular, Ltd., LeMaitre Medical Technology (Shanghai) Co. Ltd, LeMaitre Cardial SAS, LeMaitre Pte Ltd, and LeMaitre 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 management to make estimates and assumptions that affect the amounts reported in our consolidated financial statements and accompanying notes. The Company is not aware of any specific event or circumstance that would require an update to its accounting estimates or adjustments to the carrying value of its assets and liabilities. 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. 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 record revenue under the provisions of ASU 2014-09, *Revenue from Contracts with Customers (Topic 606)*. The core principle of Topic 606 is that an entity should recognize revenue to depict the transfer of goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. The standard explains that to achieve the core principle, an entity should take the following actions:

- Step 1: Identify the contract with a customer
- Step 2: Identify the performance obligations in the contract
- Step 3: Determine the transaction price
- Step 4: Allocate the transaction price
- Step 5: Recognize revenue when or as the entity satisfies a performance obligation

Revenue is recognized when or as a company satisfies a performance obligation by transferring a promised good or service to a customer (which is when the customer obtains control of that good or service). In instances in which shipping and handling activities are performed after a customer takes control of the goods (such as when title passes upon shipment from our dock), we have made the policy election allowed under Topic 606 to account for these activities as fulfillment costs and not as performance obligations.

We generally reference customer purchase orders to determine the existence of a contract. Orders that are not accompanied by a purchase order are confirmed with the customer either in writing or verbally. The purchase orders or similar correspondence, once accepted, identify the performance obligations as well as the transaction price, and otherwise outline the rights and obligations of each party. We allocate the transaction price of each contract among the performance obligations in accordance with the pricing of each item specified on the purchase order, which is in turn based on standalone selling prices per our published price lists. In cases where we discount products or provide certain items free of charge, we allocate the discount proportionately to all performance obligations, unless it can be demonstrated that the discount should be allocated entirely to one or more, but not all, of the performance obligations.

We record revenue, net of allowances for returns and discounts, fees paid to group purchasing organizations, and any sales and value added taxes required to be invoiced, which we have elected to exclude from the measurement of the transaction price as allowed by the standard, at the time of shipment (taking into consideration contractual shipping terms), or in the case of consigned inventory, when it is consumed. Shipment is the point at which control of the product and title passes to our customers, and at which LeMaitre has a present right to receive payment for the goods.

Below is a disaggregation of our revenue by major geographic area, which is among the primary categorizations used by management in evaluating financial performance, for the periods indicated (in thousands):

	Year ended December 31,	
	2022	2021
Americas	\$ 109,439	\$ 102,265
Europe, Middle East and Africa	41,854	42,132
Asia Pacific	10,358	10,027
Total	\$ 161,651	\$ 154,424

We do not carry any contract assets or contract liabilities, as there are generally no unbilled amounts due from customers under contracts for which we have partially satisfied performance obligations, or amounts received from customers for which we have not satisfied performance obligations. We satisfy our performance obligations under revenue contracts within a very short time period from receipt of the orders, and payments from customers are typically received within 30 to 60 days of fulfillment of the orders, except in certain geographies such as Spain and France where the payment cycle is customarily longer. Accordingly, there is no significant financing component to our revenue contracts. Additionally, we have elected as a policy that incremental costs (such as commissions) incurred to obtain contracts are expensed as incurred, due to the short-term nature of the contracts.

Customers returning products may be 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 returns experience, which requires judgment. 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:

	Year ended December 31,		
	2022	2021	2020
		(in thousands)	
Advertising expense	\$ 195	\$ 236	\$ 216

### **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.

### **Short-term Marketable Securities**

Our short-term marketable securities are available-for-sale securities carried at fair value, with unrealized gains and losses recorded in other comprehensive income. They include a managed income mutual fund investing mainly in short-term investment-grade, U.S. dollar denominated fixed and floating rate debt, and a short-duration bond fund.

### **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 \$10.3 million as of December 31, 2022.

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, particularly in Spain and France, may be subject to significant payment delays due to government austerity measures impacting funding and payment practices. As of December 31, 2022 our receivables in Spain and France totaled \$0.8 million and \$1.0 million, respectively. Receivables balances with certain government-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, 2022, 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:

	<b>Balance at Beginning of Period</b>		<b>Additions (recoveries) charged to Income</b>		<b>Deductions from Reserves</b>		<b>Balance at End of Period</b>
(in thousands)							
<b>Allowance for doubtful accounts and sales returns:</b>							
Year ended December 31, 2022	\$ 679	\$	637	\$	481	\$	835
Year ended December 31, 2021	623		263		207		679
Year ended December 31, 2020	522		293		192		623

### ***Fair Value of Financial Instruments***

Our financial instruments include cash and cash equivalents, short-term marketable securities, accounts receivable and trade payables. The fair value of these instruments approximates their carrying value based upon their short-term nature or variable rates of interest. Unrealized gains and losses on our short-term marketable securities are recorded in other comprehensive income. At December 31, 2022 our short-term marketable securities reflected an unrealized loss of \$1.8 million as a result of increasing market interest rates.

### ***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:

<b>Description</b>	<b>Useful Life (in years)</b>
Computer hardware	3 – 5
Machinery and equipment	3 – 10
Building and 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.

### ***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 quantitative goodwill impairment test. The "more likely than not" threshold is defined as having a likelihood of more than 50 percent. The quantitative goodwill impairment test compares the fair value of a reporting unit with its carrying amount, including goodwill. If the fair value of a reporting unit exceeds its carrying amount, goodwill of the reporting unit is considered not impaired. If the carrying amount of a reporting unit exceeds its fair value, an impairment loss is recognized in an amount equal to that excess, limited to the total amount of goodwill allocated to that reporting unit. We have determined that no goodwill impairment charges were required for the years ended December 31, 2022, 2021 or 2020.

### ***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 2 to 16 years.

### ***Stock-based Compensation***

We recognize, as expense, the estimated fair value of stock options to employees determined using the Black-Scholes option pricing model. Share-based compensation charges are recorded across the consolidated statement of operations based upon the grantee's primary function. 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) and performance-based restricted stock units (PSUs) as additional forms 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. PSUs granted in December 2022 will vest based on achievement of operating income for 2023 against budgeted operating income as approved by our Board of Directors. The fair market value of the award is determined based on the number of RSUs and PSUs 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 and PSUs are forfeited and canceled as of the date that employment or service to the company terminates. RSUs and PSUs are settled in shares of our common stock upon vesting. We typically repurchase common stock upon our employees' vesting in RSUs and PSUs in order to cover any minimum tax withholding liability as a result of the awards having vested. PSUs granted in December 2021 based on achievement of operating income for 2022 against budgeted operating income as approved by our Board of Directors were not achieved and therefore not awarded to the recipients. The Company reversed \$0.6 million of stock-based compensation expense in December 2022 as a result.

### ***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, commercial matters 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 or changes in approach, such as a change in settlement strategy in dealing with each matter. We record charges for anticipated losses in connection with litigation and claims against us when we conclude a loss is probable and we can reasonably estimate the loss. During the years ended December 31, 2022, 2021 and 2020, we were not subject to any material litigation or claims and assessments.

Sales of medical devices outside the U.S. 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 U.S. FDA. In the European Union we are required to obtain CE marks for our products, which denote conformity to essential requirements for manufacturers of higher-risk devices. Failure to obtain, retain or maintain these CE marks would impact our ability to sell our products in certain European 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.

### ***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.

### ***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 and unrealized gains and losses on our marketable securities, 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, 2022, 2021 or 2020.

Accumulated other comprehensive loss consisted of foreign currency translation adjustment losses of \$4.2 million and \$3.1 million as of December 31, 2022 and 2021, respectively, and unrealized losses on short-term marketable securities of \$1.8 million and \$0.3 million as of December 31, 2022 and 2021, 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, 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,		
	2022	2021	2020
(in thousands, except per share data)			
<b>Basic:</b>			
Net income available for common stockholders	\$ 20,636	\$ 26,907	\$ 21,220
Weighted average shares outstanding	21,975	21,157	20,246
Basic earnings per share	\$ 0.94	\$ 1.27	\$ 1.05
<b>Diluted:</b>			
Net income available for common stockholders	\$ 20,636	\$ 26,907	\$ 21,220
Weighted-average shares outstanding	21,975	21,157	20,246
Common stock equivalents, if dilutive	196	318	233
Shares used in computing diluted earnings per common share	22,171	21,475	20,479
Diluted earnings per share	\$ 0.93	\$ 1.25	\$ 1.04
Shares excluded in computing diluted earnings per share as those shares would be anti-dilutive	293	10	483

### Recent Accounting Pronouncements

From time to time, new accounting pronouncements are issued by the Financial Accounting Standards Board (FASB) or other standard setting bodies and are generally adopted by the Company as of a specified effective date. Unless otherwise discussed, the Company believes that the impact of recently issued standards that are not yet effective will not have a material impact on its financial position or results of operations upon adoption.

## 2. Acquisitions

Acquisitions are accounted for using the acquisition method and the acquired businesses' 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.

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.

**Artegraft Biologic Grafts**

On June 22, 2020, we entered into an Asset Purchase Agreement (Artegraft APA) to acquire the biologic graft business from Artegraft, Inc., who subsequent to the closing changed their name to Accidentals, Inc. (Artegraft, Inc.). Under the terms of the Artegraft APA, we agreed to pay Artegraft, Inc. a total of up to \$90.0 million for the purchase of substantially all of the assets related to its business of manufacturing, marketing, sale and distribution of its bovine carotid artery grafts (Products) other than specifically identified excluded assets. The acquired assets included inventory, accounts receivable, machinery and equipment, intellectual property, permits and approvals, data and records, and customer and supplier information. At closing, \$72.5 million of the purchase price was paid to Artegraft, Inc. and other parties as specified in the Artegraft APA, including \$7.5 million into an escrow account. The escrow amount was to be held until December 31, 2021 to cover any potential claims against LeMaitre or Artegraft, Inc. and subsequently was released to Artegraft, Inc. by mutual consent of the parties.

Three earn-out payments of \$5,833,333 each are potentially due to Artegraft, Inc. under the Artegraft APA depending on the achievement of specified revenue targets, as follows:

- \$5.8 million upon final determination that 20,000 units of Product have been sold to third parties from January 1, 2021 to December 31, 2021 (this milestone was not met and accordingly no payment was made);
- \$5.8 million upon final determination that 24,000 units of Product have been sold to third parties from January 1, 2022 to December 31, 2022 (this milestone was not met and accordingly no payment was made); and
- \$5.8 million upon final determination that 28,800 units of Product have been sold to third parties from January 1, 2023 to December 31, 2023.

The Artegraft APA includes a catch-up feature on the earn-outs such that, at the end of the three-year period, if the sum of the unit sales for all three years is greater than or equal to 58,240 unit sales (80% of the combined individual-year targets), Artegraft, Inc. will receive a “catch-up payment” in an amount equal to (a) \$17,500,000 times a fraction, the numerator of which is the aggregate number of unit sales for the three-year period, and the denominator of which is 72,800 less (b) any individual-year earn-out previously paid. We recorded this liability at a fair value of \$0.4 million to reflect management’s estimate of the likelihood of achieving these unit targets at the time of the closing of the acquisition, as well as the time value of money until payment. This amount is remeasured each quarter during the earn-out period, with any adjustments recorded in income from operations. As of December 31, 2022 the fair value of the liability is \$0.1 million.

On the date of acquisition, the Company allocated the consideration given to the individual assets acquired and the liabilities assumed based on a preliminary estimate of their fair values. During the three months ended September 30, 2020, the Company obtained and considered additional information related to the assets acquired and liabilities assumed, and recorded measurement period adjustments to the allocation of the purchase price. The following table summarizes the purchase price allocation:

	<b>Allocated Fair Value</b>
	(in thousands)
Inventory	\$ 3,859
Accounts receivable	1,789
Equipment and supplies	1,140
Accounts payable and other	(53)
Intangible assets	39,056
Goodwill	27,115
	<hr/>
Purchase price	\$ 72,906

The goodwill results from expected synergies of combining the acquired products and customer information to our existing operations, and is deductible for tax purposes over 15 years.

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

	<b>Allocated Fair Value</b>	<b>Estimated Useful Life (in years)</b>
	(in thousands)	
Customer relationships	\$ 20,310	15.0
Intellectual property	16,449	10.0
Non-compete agreement	104	5.0
Tradenames	2,193	10.0
Total intangible assets	<u>\$ 39,056</u>	

The weighted-average amortization period of the acquired intangible assets was 12.6 years.

#### ***CardioCel and VascuCel Biologic Patches***

On October 11, 2019 (the Closing Date), we entered into an asset purchase agreement (Admedus APA) to acquire the biologic patch business assets and a related technology license from Admedus Ltd (now known as Anteris Technologies Ltd) and various of its subsidiaries (collectively, Admedus). The biologic patch business consists of the CardioCel and VascuCel product lines, which are manufactured in a manner intended to reduce the risk of calcification. The products are sold worldwide. On the same date, the parties entered into a Transition Services Agreement (TSA) under which Admedus will manufacture and supply LeMaitre with inventory for a period of up to three years, unless extended in writing by both parties. In August 2021, the term of this arrangement was extended through July 11, 2023, and in February 2023, it was further extended through January 11, 2024.

Under the Admedus APA we agreed to pay Admedus a total of up to \$15.3 million for the purchase of substantially all of its biologic patch business assets, other than specifically identified excluded assets, plus \$8.0 million for the technology license. The acquired assets (in combination with the license) included inventory, intellectual property, permits and approvals, data and records, and customer and supplier information, as well as a small amount of machinery and equipment. At closing, \$14.2 million of the purchase price was paid to Admedus. Shortly thereafter another \$0.3 million was paid in connection with delivery of audited financial statements of the acquired business to LeMaitre. Additional payments of \$0.7 million are due within 15 days of the first and third anniversaries of the closing date; the first payment was made in October 2020. Additional contingent consideration was or may be payable as follows:

- \$2.5 million if revenues in the first 12-month period following the Closing Date exceed \$20 million, or, \$1.2 million if revenues in the first 12-month period following the Closing Date exceed \$15 million (this milestone was not met and accordingly no payment was made);
- \$2.5 million if revenues in the second 12-month period following the Closing Date exceed \$30 million, or, \$1.2 million if revenues in the second 12-month period following the Closing Date exceed \$22.5 million (this milestone was not met and accordingly no payment was made);
- \$0.5 million if, by the first anniversary of the Closing Date, Admedus extends the shelf life of the products from 36 months to at least 60 months (this milestone was not met and accordingly no payment was made); and
- \$2.0 million within 15 days following LeMaitre's receipt of a CE mark under MDR regulations on all acquired products (the Third Holdback Amount).

This contingent consideration of \$7.5 million was initially valued in total at \$2.0 million and is being re-measured each reporting period until the payment requirement ends, with any adjustments reported in income from operations.

During the quarter ended September 30, 2021, the Company entered into an amendment to the Admedus APA. Under the amendment, the Third Holdback Amount, less a deduction for certain expenses incurred by LeMaitre in order to achieve CE mark certification, will be paid as follows: 75% within 15 days following LeMaitre's receipt of a CE mark under MDR regulations for CardioCel products, and 25% within 15 days following LeMaitre's receipt of a CE mark under MDR regulations for VascuCel products. During the quarter ended September 30, 2021 we recorded a reduction to the liability of approximately \$0.5 million, with the offset recorded in income from operations, to reflect our estimate of costs to be deducted from the Third Holdback Amount in connection with this amendment. Additionally, during the quarter ended December 31, 2022 we recorded a reduction to the liability of approximately \$0.1 million, with the offset recorded in income from operations.

### 3. Divestitures

On April 26, 2022, we committed to a plan to close our St. Etienne, France factory, which supported our LeMaitre Cardial SAS (Cardial) business, in order to streamline manufacturing operations and reduce expenses. The Cardial business consisted of the manufacture of polyester vascular grafts, valvulotomes, surgical glue and selected OEM devices. We acquired the Cardial business in 2018.

On June 30, 2022 we ceased operations at the St. Etienne, France factory. The closure resulted in a restructuring charge of \$3.1 million for the year ended December 31, 2022. Charges primarily consisted of employment termination costs, impairment of fixed assets and inventory, and third-party costs. We did not record additional expenses related to the closure subsequent to June 30, 2022.

On October 10, 2022 we sold the St. Etienne, France building, building improvements, and land for \$0.9 million less closing costs of \$0.1 million, resulting in a gain of approximately \$0.1 million recorded for the three months ended December 31, 2022.

### 4. Inventory and Other Deferred Costs

Inventory and other deferred costs consists of the following:

	<b>December 31, 2022</b>	<b>December 31, 2021</b>
	(in thousands)	
Raw materials	\$ 14,929	\$ 5,945
Work-in-process	3,662	9,416
Finished products	26,688	25,286
Other deferred costs	4,992	5,457
Total inventory and other deferred costs	<u>\$ 50,271</u>	<u>\$ 46,104</u>

We had inventory on consignment at customer sites of \$1.5 million and \$2.1 million at December 31, 2022 and 2021, respectively.

In connection with our RestoreFlow allograft business, other deferred costs include costs incurred for the preservation of human 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. These costs include fixed and variable overhead costs associated with the cryopreservation process, including primarily direct labor costs, tissue recovery fees, inbound freight charges, indirect materials and facilities costs. General and administrative expenses and selling expenses associated with the provision of these services are expensed as incurred.

## 5. Property and Equipment

Property and equipment consists of the following:

	<b>As of December 31,</b>	
	<b>2022</b>	<b>2021</b>
	(in thousands)	
Computer hardware	\$ 5,689	\$ 5,667
Machinery and equipment	22,104	18,439
Building and leasehold improvements	15,232	15,884
<b>Gross property and equipment</b>	<b>43,025</b>	<b>39,990</b>
Less accumulated depreciation	(25,124)	(22,931)
<b>Property and equipment, net</b>	<b>\$ 17,901</b>	<b>\$ 17,059</b>

During the years ended December 31, 2022, 2021 and 2020 we wrote off fully depreciated assets with gross values of \$0.5 million, \$0.1 million and \$0.6 million, respectively.

Depreciation expense is as follows:

	<b>Year ended December 31,</b>		
	<b>2022</b>	<b>2021</b>	<b>2020</b>
	(in thousands)		
Depreciation expense	\$ 3,250	\$ 3,280	\$ 3,181

## 6. Goodwill and Other Intangibles

Goodwill consists of the following:

	<b>As of December 31,</b>	
	<b>2022</b>	<b>2021</b>
Balance at beginning of year	\$ 65,945	\$ 65,945
Additions for acquisitions	-	-
Purchase accounting adjustments	-	-
Effects of currency exchange	-	-
<b>Balance at end of year</b>	<b>\$ 65,945</b>	<b>\$ 65,945</b>

Other intangibles consist of the following:

	December 31, 2022			December 31, 2021		
	Gross Carrying Value	Accumulated Amortization	Net Carrying Value	Gross Carrying Value	Accumulated Amortization	Net Carrying Value
	(in thousands)					
Product technology and intellectual property	\$ 29,549	\$ 13,319	\$ 16,230	\$ 29,549	\$ 10,473	\$ 19,076
Trademarks, tradenames and licenses	3,647	1,533	2,114	3,647	1,139	2,508
Customer relationships	36,197	8,359	27,838	36,197	5,674	30,523
Other intangible assets	1,461	1,116	345	1,461	858	603
Total identifiable intangible assets	<u>\$ 70,854</u>	<u>\$ 24,327</u>	<u>\$ 46,527</u>	<u>\$ 70,854</u>	<u>\$ 18,144</u>	<u>\$ 52,710</u>

These assets are being amortized over useful lives ranging from 2 to 16 years. The weighted-average amortization period for these intangibles as of December 31, 2022, is 10.1 years. Amortization expense is included in general and administrative expense and is as follows:

	Year ended December 31,		
	2022	2021	2020
	(in thousands)		
Amortization expense	<u>\$ 6,183</u>	<u>\$ 6,195</u>	<u>\$ 5,043</u>

Estimated amortization expense for each of the next five fiscal years, based upon the intangible assets at December 31, 2022, is as follows:

	Year ended December 31,				
	2023	2024	2025	2026	2027
	(in thousands)				
Amortization expense	<u>\$ 5,952</u>	<u>\$ 5,629</u>	<u>\$ 5,429</u>	<u>\$ 4,983</u>	<u>\$ 4,706</u>

## 7. Revolving Line of Credit and Long-term Debt

In connection with the acquisition of the Artegraft biologic graft business, we incurred debt in the amount of \$65 million under a senior secured credit facility with a group of banks. This credit arrangement included a \$25 million revolving credit line that was fully drawn at inception, as well as a \$40 million five-year term loan. During the year ended December 31, 2020, we made scheduled principal payments on the term loan of \$1.0 million and repaid the revolving line of credit in full. During the year ended December 31, 2021, we made scheduled principal payments on the term loan of \$1.0 million, repaid the loan in full, and terminated the credit agreement in accordance with its terms.

Under the terms of the agreement, the loans bore interest at a rate per annum of, at our option, either (i) the Base Rate plus an applicable margin of from 1.25% to 1.75% depending on our consolidated leverage ratio, or (ii) the Eurodollar Rate plus an applicable margin of from 2.25% to 2.75% depending on our consolidated leverage ratio. Base Rate was defined in the credit agreement as a fluctuating rate per annum of the Federal Funds rate plus 0.5% or the prime rate of interest established from time to time by KeyBank National Association. Cash paid for interest during both of the years ended December 31, 2021 and 2020 was \$0.9 million.

We incurred debt issuance costs in connection with this credit arrangement of approximately \$1.8 million. These costs were allocated between the revolving line of credit and the term loans, with the portion related to the revolving line of credit of \$0.7 million recorded in other assets on our balance sheet, and the portion allocated to the term loan recorded as a deduction from the amount of the debt. All of these transaction costs were being amortized into interest expense on a straight-line basis as the result would not be materially different from using the interest method, over the five-year term of the arrangement. This resulted in an effective interest rate of approximately 4.2%.

In November 2021, we terminated the credit agreement, including the revolving line of credit, as permitted under the original agreement.

## 8. Accrued Expenses and Other Long-term Liabilities

Accrued expenses consist of the following:

	<u>December 31, 2022</u>	<u>December 31, 2021</u>
	(in thousands)	
Compensation and related taxes	\$ 10,770	\$ 10,236
Accrued expenses	4,640	2,719
Accrued purchases	3,748	2,545
Income and other taxes	449	551
Professional fees	108	129
Other	252	152
	<u>19,967</u>	<u>16,332</u>
Total	<u>\$ 19,967</u>	<u>\$ 16,332</u>

Other long-term liabilities consist of the following:

	<u>December 31, 2022</u>	<u>December 31, 2021</u>
	(in thousands)	
Acquisition-related liabilities	\$ 1,354	\$ 1,761
Income taxes	636	799
Other	177	141
	<u>2,167</u>	<u>2,701</u>
Total	<u>\$ 2,167</u>	<u>\$ 2,701</u>

## 9. Commitments and Contingencies

### Leases

We conduct the majority of our operations in leased facilities, all of which are accounted for as operating leases, as they do not meet the criteria for finance leases. Our principal worldwide executive, distribution, and manufacturing operations are located in five leased facilities with square footage totaling 109,354 in Burlington, Massachusetts. All five Burlington leases expire in December 2030.

Our European operations are headquartered at a 21,410 square foot leased facility located in Sulzbach, Germany. In June 2022, we increased our square footage by 4,940 (from 16,470) square feet and extended the lease through June 2031. This lease contains a five-year renewal option. Additionally, in May 2022, we signed a new sales office/warehouse lease in Seoul, Korea, which includes 2,300 square feet of office and warehouse space, and expires in April 2027. In June 2022, we extended our Singapore lease by one-year to expire in June 2023.

We also lease a facility in Hereford, England which houses our United Kingdom sales and distribution business. During the quarter ended June 30, 2021, we executed an expansion of the Hereford lease under terms substantially similar to the original lease. In connection with our acquisition of the Artegraft biologic graft business, we assumed a 16,732 square foot lease in North Brunswick, New Jersey, which expires in October 2029. In June 2021, we entered into a six-year lease in Milan, Italy which houses a customer service and warehouse facility. This lease contains a six-year renewal option.

We also have smaller long-term leased sales, marketing and other facilities located in Arizona, Canada, Australia, Singapore and China, and short-term leases in Japan, Spain and Illinois. In August 2022 the lease in Arizona was extended for an additional three years through August 2025. The lease in China was extended for an additional two years through August 2024, effective September 1, 2022. Our lease in Canada contains a five-year renewal option exercisable in February 2023. Effective March 2023, the Canada lease will be renewed for a term of three years, ending February 2026, with an additional three year option thereafter. Our leases in Germany and Italy are subject to periodic rent increases based on increases in the consumer price index as measured on an annual basis, with such increases applicable to the subsequent twelve months of lease payments. None of our noncancelable lease payments include non-lease components such as maintenance contracts; we generally reimburse the landlord for direct operating costs associated with the leased space. We have no subleases, and there are no residual value guarantees associated with, or restrictive covenants imposed by, any of our leases. There were no assets held under capital leases at December 31, 2022.

We also lease automobiles under operating leases in the United States as well as certain of our international subsidiaries. The terms of these leases are generally three years, with older vehicles replaced by newer vehicles from time to time. During the fiscal year 2021, we entered into a five-year lease for printing equipment.

We account for leases under the provisions of ASU No. 2016-02, subsequently amended by ASU 2018-11, . Under this guidance, we are 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.

Our most significant judgement involved in determining the amounts to initially record as lease liabilities and right-of-use assets upon initial adoption of this standard, and for leases entered into subsequently, was the selection of a discount rate; because we had no debt as of the adoption of this standard, we had no incremental borrowing rate to reference. We therefore derived an incremental borrowing rate using quotes from potential lenders as the primary inputs, augmented by other available information. The resulting rate selected was 5.25%. We determined that it was appropriate to apply this single rate to our portfolio of leases worldwide, as the lease terms and conditions are substantially similar, and because we believe our subsidiaries would be unable to obtain borrowings on their own without a commitment of parent company support. In connection with the assumption of the Artegraft North Brunswick, New Jersey lease, we used LeMaitre's borrowing rate of 3.5% as of the acquisition date associated with debt incurred to finance the acquisition to value the lease.

Additional information with respect to our leases is as follows:

	<b>Year ended December 31, 2022</b>	<b>Year ended December 31, 2021</b>
	<b>(in thousands)</b>	<b>(in thousands)</b>
<b>Lease cost</b>		
Operating lease cost	\$ 2,203	\$ 2,275
Short-term lease cost	632	458
Total lease cost	<u>\$ 2,835</u>	<u>\$ 2,733</u>
<b>Other information</b>		
Cash paid for amounts included in the measurement of operating lease liabilities	<u>\$ 2,878</u>	<u>\$ 2,859</u>
Right-of-use assets obtained in exchange for new operating lease liabilities	<u>\$ 2,766</u>	<u>\$ 1,277</u>
Weighted average remaining lease term - operating leases (in years)	7.1	7.3
Weighted average discount rate - operating leases	4.93%	4.86%

At December 31, 2022, the minimum noncancelable operating lease rental commitments with initial or remaining terms of more than one year are as follows:

Year ending December 31,	
2023	\$ 2,795
2024	2,720
2025	2,615
2026	2,519
2027	2,423
Thereafter	6,975
Adjustment to net present value as of December 31, 2022	(3,451)
Minimum noncancelable lease liability	<u>\$ 16,596</u>

### Purchase Commitments

As part of our normal course of business, we have commitments to purchase approximately \$5.9 million of inventory through 2023. These purchases are to be used in the normal course of business and do not represent excess commitments or loss contracts.

## 10. Income Taxes

Income (loss) before income taxes is as follows:

	Year ended December 31,		
	2022	2021	2020
	(in thousands)		
United States	\$ 26,274	\$ 34,153	\$ 25,308
Foreign	1,216	134	2,048
Total	<u>\$ 27,490</u>	<u>\$ 34,287</u>	<u>\$ 27,356</u>

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:

	Year ended December 31,		
	2022	2021	2020
	(in thousands)		
Current:			
Federal	\$ 5,063	\$ 5,024	\$ 4,594
State	938	990	806
Foreign	1,035	1,287	1,064
	7,036	7,301	6,464
Deferred:			
Federal	(144)	63	(397)
State	(83)	(9)	(48)
Foreign	45	25	117
	(182)	79	(328)
Provision for income taxes	<u>\$ 6,854</u>	<u>\$ 7,380</u>	<u>\$ 6,136</u>

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, 2022, the gross amount of unrecognized tax benefits exclusive of interest and penalties was \$0.6 million, which may increase within the twelve months ending December 31, 2023. We recognized a reduction of unrecognized tax benefits in 2022 due to the lapse of the applicable statute of limitations in Australia. We remain subject to examination until the statute of limitations expires for each remaining respective tax jurisdiction. The statute of limitations will be open with respect to these tax positions through 2030. A reconciliation of the beginning and ending amount of our unrecognized tax benefits is as follows:

	<u>2022</u>	<u>2021</u>	<u>2020</u>
		(in thousands)	
Unrecognized tax benefits at the beginning of year	\$ 768	\$ 820	\$ 848
Additions/adjustments for tax positions of current year	-	-	-
Additions/adjustments for tax positions of prior years	(57)	(52)	37
Reductions for settlements with taxing authorities	-	-	(65)
Reductions for lapses of the applicable statutes of limitations	(99)	-	-
Unrecognized tax benefits at the end of the year	<u>\$ 612</u>	<u>\$ 768</u>	<u>\$ 820</u>

Deferred taxes are attributable to the following temporary differences:

	<u>As of December 31,</u>	
	<u>2022</u>	<u>2021</u>
	(in thousands)	
<b>Deferred tax assets:</b>		
Inventory	\$ 2,002	\$ 2,231
Net operating loss carryforwards	1,027	1,153
Tax credit carryforwards	996	1,033
Capital loss carryforwards	462	492
Reserves and accruals	1,090	712
Operating lease liabilities	3,295	3,562
Intangible assets	4,468	4,426
Stock options	446	440
Other	573	140
<b>Total deferred tax assets</b>	<u>14,359</u>	<u>14,189</u>
<b>Deferred tax liabilities:</b>		
Property and equipment	(1,473)	(1,713)
Goodwill	(5,610)	(4,825)
Operating lease right-of-use assets	(3,066)	(3,355)
Foreign branch deferred offset	(742)	(843)
Other	(164)	(213)
<b>Total deferred tax liabilities</b>	<u>(11,055)</u>	<u>(10,949)</u>
<b>Net deferred tax assets before valuation allowance</b>	<u>3,304</u>	<u>3,240</u>
<b>Valuation allowance</b>	<u>(1,628)</u>	<u>(1,744)</u>
<b>Net deferred tax liability</b>	<u>\$ 1,676</u>	<u>\$ 1,496</u>
<b>Deferred tax classification</b>		
Long-term deferred tax asset	\$ 1,745	\$ 1,566
Long-term deferred tax liability	(69)	(70)
<b>Net long-term deferred tax asset</b>	<u>\$ 1,676</u>	<u>\$ 1,496</u>

In 2021, we decreased our valuation allowance by \$0.1 million mainly attributable to Australian net operating loss carry forwards and Massachusetts credit carryforwards. In 2022, we decreased our valuation allowance by \$0.1 million mainly attributable to Australian net operating loss carry forwards and Massachusetts credit carryforwards.

As of December 31, 2022, we have provided a valuation allowance of \$1.6 million for deferred tax assets primarily related to Australian net operating loss and capital loss carry forwards and Massachusetts tax credit carry forwards that are not expected to 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.

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, 2022, we have net operating loss carryforwards in Australia of \$1.2 million that do not expire, in France of \$1.9 million that do not expire, in Spain of \$0.7 million that do not expire, in Norway of \$0.1 million that do not expire, and in China of \$0.4 million that expire in five years. We have a capital loss carryforward in Australia of \$1.5 million that does not expire. We also have state tax credit carryforwards of approximately \$1.6 million that are available to reduce future tax liabilities, which begin to expire in 2030, or can be carried forward indefinitely.

In December 2018, we reevaluated our international operations and as a result, are no longer indefinitely reinvested with respect to undistributed earnings from our German and Australian subsidiaries. There was no material deferred tax expense recorded for foreign and state tax costs associated with the future remittance of these undistributed earnings. We remain permanently reinvested with respect to undistributed earnings from our other foreign subsidiaries. It is not practicable to estimate the amount of deferred tax liability, if any, with respect to these permanently reinvested undistributed earnings.

A reconciliation of the U.S. federal statutory rate to our effective tax rate is as follows:

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Federal statutory rate	21.0%	21.0%	21.0%
State tax, net of federal benefit	2.7%	2.7%	2.2%
Effect of foreign taxes	4.0%	3.7%	1.1%
Federal tax on foreign income	0.0%	0.2%	0.4%
Valuation allowance	(0.2%)	(0.1%)	1.4%
Foreign deferred tax liability offset	(0.2%)	(0.1%)	(0.2%)
Research & development tax credits	0.0%	(0.4%)	(0.6%)
Stock options	0.0%	(3.1%)	(2.3%)
Uncertain tax positions	(0.3%)	0.2%	0.3%
Other permanent differences	(1.8%)	(2.4%)	(0.6%)
Other	(0.3%)	(0.2%)	(0.3%)
Effective tax rate	<u>24.9%</u>	<u>21.5%</u>	<u>22.4%</u>

We are not currently under income tax audit in any tax jurisdictions.

As of December 31, 2022, a summary of the tax years that remain subject to examination in our most significant tax jurisdictions are:

United States	2019 and forward
Foreign	2015 and forward

Supplemental disclosures of cash flow information are as follows:

	Year ended December 31,		
	2022	2021	2020
	(in thousands)		
Cash paid for income taxes, net	\$ 8,343	\$ 10,147	\$ 4,470

## 11. 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 and up to 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.

### Equity Offering

On July 16, 2021, we closed an offering of 1,000,000 shares of our common stock, \$0.01 par value per share, at a price to the public of \$54.50 per share, less underwriting discounts. The net proceeds, after deducting the underwriting discounts and other offering expenses, were approximately \$51.0 million. We used a portion of the proceeds from the offering to repay our outstanding debt. At the time of the offering we intended to use the remaining proceeds for general corporate purposes, including working capital needs and capital expenditures, dividend payments, deferred payments related to prior acquisitions, and the funding of future acquisitions.

On August 4, 2021, the underwriters purchased an additional 150,000 shares pursuant to an option granted to them in connection with the offering described above. The net proceeds to the Company, after deducting underwriting discounts and other offering expenses, were approximately \$7.6 million. At the time of the stock sale we intended to use the proceeds for general corporate purposes.

### 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. The 2006 Plan allows for the granting of an aggregate 5,500,000 shares of incentive stock options, non-qualified stock options, stock appreciation rights, RSUs, PSUs, 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, RSUs or PSUs 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 438,478 remain available for grant as of December 31, 2022.

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

	2022	2021	2020
Dividend yield	1.06%	0.91%	1.02%
Volatility	44.6%	46.0%	47.3%
Risk-free interest rate	3.9%	1.1%	0.3%
Weighted average expected option term (in years)	4.5	4.6	4.9
Weighted average fair value per share of options granted	\$ 18.10	\$ 17.64	\$ 13.24

A summary of option activity as of December 31, 2022 and for the three years then ended is presented below:

	Number of Shares	Weighted Average Exercise Price	Weighted Average Remaining Contractual Term (in years)	Aggregate Intrinsic Value (in thousands)
Balance outstanding at December 31, 2019	1,047,094	\$ 28.22	4.31	\$ 13,367
Granted	222,110	\$ 36.67		
Exercised	(331,958)	\$ 17.99		\$ 5,413
Canceled / Expired	(5,406)	\$ 27.49		
Balance outstanding at December 31, 2020	931,840	\$ 28.22	4.49	\$ 11,442
Granted	151,161	\$ 48.60		
Exercised	(217,121)	\$ 20.95		\$ 6,975
Canceled / Expired	(19,126)	\$ 23.18		
Balance outstanding at December 31, 2021	846,754	\$ 33.83	4.50	\$ 13,888
Granted	159,275	\$ 47.21		
Exercised	(133,963)	\$ 25.80		\$ 3,021
Canceled / Expired	(12,091)	\$ 35.53		
Balance outstanding at December 31, 2022	859,975	\$ 37.53	4.35	\$ 7,878
<b>Exercisable at:</b>				
December 31, 2020	274,411	\$ 23.08	3.50	\$ 4,781
December 31, 2021	301,692	\$ 27.40	3.30	\$ 6,886
December 31, 2022	369,593	\$ 32.16	3.17	\$ 5,223
<b>Expected to vest at:</b>				
December 31, 2020	657,429	\$ 30.37	4.93	
December 31, 2021	545,062	\$ 37.38	5.16	
December 31, 2022	490,382	\$ 41.59	5.23	

Cash received from stock options exercised during the years ended December 31, 2022, 2021 and 2020 was \$3.5 million, \$4.5 million and \$6.0 million, respectively.

#### **Restricted Stock Units and Performance-based Restricted Stock Units**

The fair value of restricted stock unit awards with time-based vesting is based on the intrinsic value of the awards at the date of grant.

We also issue restricted stock unit awards with vesting based on performance conditions. Performance-based restricted stock units awarded will vest based on our achievement of operating income relative to our target operating income. For restricted stock unit awards that include vesting based on performance conditions, the fair values are based on the intrinsic values of the awards at the date of grant.

A summary of our restricted stock unit activity as of December 31, 2022 and for the three years then ended is presented below:

	<u>Number of Shares</u>	<u>Weighted Average Grant Date Fair Value</u>
Balance outstanding at December 31, 2019	188,681	\$ 26.14
Granted	46,146	\$ 36.86
Vested	(50,669)	\$ 22.76
Canceled	(37,143)	\$ 27.88
Balance outstanding at December 31, 2020	147,015	\$ 30.24
Granted	48,298	\$ 48.65
Vested	(51,414)	\$ 26.32
Canceled	(10,068)	\$ 30.70
Balance outstanding at December 31, 2021	<u>133,831</u>	<u>\$ 38.26</u>
Granted	51,031	\$ 47.11
Vested	(45,489)	\$ 35.75
Canceled	(6,229)	\$ 40.79
Balance outstanding at December 31, 2022	<u>133,144</u>	<u>\$ 42.38</u>

A summary of our performance-based restricted stock unit activity as of December 31, 2022 and for the two years then ended is presented below:

	<u>Number of Shares</u>	<u>Weighted Average Grant Date Fair Value</u>
Balance outstanding at December 31, 2020	-	\$ -
Granted	31,181	\$ 48.60
Vested	-	\$ -
Canceled	-	\$ -
Balance outstanding at December 31, 2021	<u>31,181</u>	<u>\$ 48.60</u>
Granted	28,830	\$ 47.13
Vested	-	\$ -
Canceled	(31,538)	\$ 48.53
Balance outstanding at December 31, 2022	<u>28,473</u>	<u>\$ 47.19</u>

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 2022, 2021 and 2020 were \$2.1 million, \$2.5 million, and \$1.8 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:

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Shares of common stock repurchased for net settlement of equity awards	13,690	16,333	16,537
Average per share repurchase price	\$ 46.90	\$ 49.10	\$ 34.47
Aggregate purchase price (in thousands)	\$ 642	\$ 802	\$ 570

### ***Stock-based Compensation***

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

	<u>2022</u>	<u>2021</u>	<u>2020</u>
		(in thousands)	
Stock option awards	\$ 2,487	\$ 2,199	\$ 1,938
Restricted stock units	1,654	1,247	1,084
Performance-based restricted stock units	32	33	-
<b>Total stock-based compensation</b>	<b>\$ 4,173</b>	<b>\$ 3,479</b>	<b>\$ 3,022</b>

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

	<u>2022</u>	<u>2021</u>	<u>2020</u>
		(in thousands)	
Cost of sales	\$ 494	\$ 407	\$ 333
Sales and marketing	771	527	516
General and administrative	2,500	2,185	1,883
Research and development	408	360	290
<b>Total stock-based compensation</b>	<b>\$ 4,173</b>	<b>\$ 3,479</b>	<b>\$ 3,022</b>

We expect to record the unamortized portion of share-based compensation expense of \$14.0 million for existing stock options, RSUs and PSUs outstanding at December 31, 2022, over a weighted-average period of 2.1 years.

### ***Stock Repurchase Plans***

On February 21, 2023, our Board of Directors authorized the repurchase of up to \$25.0 million of the Company's common stock through transactions on the open market, in privately negotiated purchases or otherwise until February 21, 2024. The repurchase program may be suspended or discontinued at any time. To date we have not made any 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 Share Amount	Dividend Payment (in thousands)
<b>Fiscal Year 2022</b>			
March 8, 2022	March 24, 2022	\$ 0.125	\$ 2,743
May 17, 2022	June 2, 2022	\$ 0.125	\$ 2,745
August 25, 2022	September 8, 2022	\$ 0.125	\$ 2,750
November 17, 2022	December 1, 2022	\$ 0.125	\$ 2,750
<b>Fiscal Year 2021</b>			
March 9, 2021	March 25, 2021	\$ 0.110	\$ 2,262
May 19, 2021	June 3, 2021	\$ 0.110	\$ 2,267
August 26, 2021	September 9, 2021	\$ 0.110	\$ 2,401
November 19, 2021	December 2, 2021	\$ 0.110	\$ 2,405

On February 21, 2023, our Board of Directors approved a quarterly cash dividend on our common stock of \$0.14 per share payable on March 23, 2023, to stockholders of record at the close of business on March 9, 2023, which will total approximately \$3.1 million.

## 12. 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 also 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 \$0.6 million, \$0.5 million and \$0.3 million for 2022, 2021 and 2020, respectively. A similar plan is offered to our Canadian employees.

## 13. 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, Germany and France. Net sales to unaffiliated customers by country were as follows:

	Year ended December 31,		
	2022	2021	2020
	(in thousands)		
United States	\$ 99,463	\$ 93,866	\$ 75,222
Germany	11,223	12,968	12,365
Canada	8,336	7,054	5,408
Other countries	42,629	40,536	36,371
Net sales	\$ 161,651	\$ 154,424	\$ 129,366

Long-term assets by country, including property and equipment, net and right-of-use leased assets were as follows:

	<b>As of December 31,</b>	
	<b>2022</b>	<b>2021</b>
	<b>(in thousands)</b>	
United States	\$ 29,042	\$ 28,402
Germany	2,462	781
France	15	1,038
Other countries	2,016	1,909
Total long-term assets	<u>\$ 33,535</u>	<u>\$ 32,130</u>

#### 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, 2022 included our short-term investment mutual fund account.

We had no Level 2 assets being measured at fair value on a recurring basis as of December 31, 2022.

As discussed in Notes 1 and 2, several of our acquisition-related assets and liabilities have been measured using Level 3 techniques. During 2020 we recorded a contingent liability associated with our acquisition of the bovine carotid graft business from Artegraft. As discussed more fully in Note 2, the agreement required us to make potential additional payments to Artegraft of up to \$17.5 million depending on the achievement of certain unit sales milestones during the first three calendar years following the acquisition. We recorded this liability at a fair value of \$0.4 million to reflect management's estimate of the likelihood of achieving these targets at the time of the Closing, as well as the time value of money until payment. This amount is being remeasured each quarter during the earn-out period, with any adjustments recorded in income from operations. During the quarter ended December 31, 2022 we recorded a reduction to the liability to reflect a change in our estimate of the likelihood of achieving the unit sales milestones.

During 2019, we recorded contingent liabilities associated with our acquisition of the Admedus biologic patch business. The agreement includes the potential for us to pay up to \$7.8 million of additional consideration beyond payments made to date, with \$0.3 million contingent upon the delivery of audited financial statement of the acquired business to us; \$2.0 million contingent on LeMaitre's success in obtaining CE marks under MDR regulations on the acquired products, \$0.5 million contingent upon Admedus' success in extending the shelf life of the acquired products as specified in the agreement, and another \$5.0 million contingent on the achievement of specified levels of revenues in the first 12 and 24 months following the acquisition date. This additional contingent consideration was initially valued in total at \$2.3 million and is being re-measured each reporting period until the payment requirement ends, with any adjustments reported in income from operations. The contingent payment related to the delivery of audited financial statements of the business was paid in November 2019 upon satisfaction of the deliverable. The contingent payments related to Admedus' extending the shelf life of the acquired products and achieving the revenue targets during the first 12 and 24 month periods following the acquisition were not met, and the portion of the liabilities related to these items was adjusted through income from operations. The agreement was amended in August 2021 such that the contingent payment of \$2.0 million potentially due upon LeMaitre Vascular's success in obtaining CE marks under MDR regulations on the acquired products may be reduced for certain costs incurred by LeMaitre in achieving the CE marks. During the quarter ended September 30, 2021 we recorded a reduction to the liability of \$0.5 million, with the offset recorded in income from operations, to reflect our estimate of costs to be deducted from the contingent payment in connection with this amendment. Additionally, during the quarter ended December 31, 2022 we recorded a reduction to the liability of approximately \$0.1 million, with the offset recorded in income from operations.

The following table provides a rollforward of the fair value of these liabilities, as determined by Level 3 unobservable inputs including management's forecast of future revenues for the acquired businesses, as well as, management's estimates of the likelihood of achieving the other specified criteria:

	Year ended December 31,		
	2022	2021	2020
	(in thousands)		
Beginning balance	\$ 1,492	\$ 2,240	\$ 1,764
Additions	-	-	406
Payments	-	-	-
Change in fair value included in earnings	(153)	(748)	70
Ending balance	<u>\$ 1,339</u>	<u>\$ 1,492</u>	<u>\$ 2,240</u>

#### 15. Accumulated Other Comprehensive Income (Loss)

	Year ended December 31,		
	2022	2021	2020
	(in thousands)		
Beginning balance	\$ (3,435)	\$ (1,525)	\$ (4,007)
Other comprehensive income (loss) before reclassifications	(2,596)	(1,910)	2,482
Amounts reclassified from accumulated other comprehensive loss	-	-	-
Ending Balance	<u>\$ (6,031)</u>	<u>\$ (3,435)</u>	<u>\$ (1,525)</u>

Changes to our accumulated other comprehensive loss consisted primarily of foreign currency translation and unrealized losses on short-term marketable securities for the years ended December 31, 2022, 2021 and 2020.

#### 16. Quarterly Financial Data (unaudited)

2022	Three months ended			
	March 31	June 30	September 30	December 31
	(in thousands, except per share data)			
Total net sales	\$ 39,561	\$ 42,108	\$ 39,028	\$ 40,954
Gross profit	25,962	27,810	25,070	26,054
Income from operations	7,928	5,784	6,150	6,967
Net income	6,038	3,515	5,456	5,627
Earnings per share				
Basic	\$ 0.28	\$ 0.16	\$ 0.25	\$ 0.26
Diluted	\$ 0.27	\$ 0.16	\$ 0.25	\$ 0.25

2021	Three months ended			
	March 31	June 30	September 30	December 31
	(in thousands, except per share data)			
Total net sales	\$ 35,883	\$ 40,670	\$ 38,368	\$ 39,503
Gross profit	23,799	26,761	24,866	25,956
Income from operations	7,945	11,106	9,073	8,301
Net income	5,929	8,299	6,504	6,175
Earnings per share				
Basic	\$ 0.29	\$ 0.40	\$ 0.30	\$ 0.28
Diluted	\$ 0.28	\$ 0.40	\$ 0.30	\$ 0.28

## SUBSIDIARIES OF THE REGISTRANT

The following is a list of our subsidiaries:

<b>Name</b>	<b>State or Other Jurisdiction of Incorporation</b>	<b>Name Under Which Does Business</b>
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
LeMaitre Cardial SAS	France	Same
LeMaitre Pte Ltd	Singapore	Same
LeMaitre Ltd	Korea	Same

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We have issued our reports dated March 1, 2023, with 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, 2022. We consent to the incorporation by reference of said reports in the Registration Statements of LeMaitre Vascular, Inc. on Form S-3 (File No. 333-195658) and on Form S-8 (File No. 333-161361, File No. 333-174129, and File No. 333-205360).

/s/ GRANT THORNTON LLP

Boston, Massachusetts  
March 1, 2023

## 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

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**George W. LeMaitre**  
**Chairman and Chief Executive Officer**

Date: March 1, 2023

## 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.

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**Joseph P. Pellegrino, Jr.**  
**Chief Financial Officer**

Date: March 1, 2023

**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, 2022, 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 be deemed to be "filed" for any purpose whatsoever.

          /s/ GEORGE W. LEMAITRE          

**George W. LeMaitre**  
**Chairman and Chief Executive Officer**

March 1, 2023

**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, 2022, 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 be deemed to be "filed" for any purpose whatsoever.

/s/ JOSEPH P. PELLEGRINO, JR.

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**Joseph P. Pellegrino, Jr.**  
**Chief Financial Officer**

March 1, 2023