

AtriCure, Inc.
 Form 424B5
 October 03, 2018
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 Registration No. 333-212088

The information in this prospectus supplement and the accompanying prospectus is not complete and may be changed. This prospectus supplement and the accompanying prospectus are not an offer to sell these securities, nor are they soliciting offers to buy these securities, in any jurisdiction where the offer or sale is not permitted.

Subject to completion, dated October 3, 2018

Prospectus Supplement

(To Prospectus dated June 24, 2016)

2,500,000 shares

Common Stock

We are offering 2,500,000 shares of common stock as described in this prospectus supplement and the accompanying prospectus.

Our common stock is listed on The NASDAQ Global Market under the symbol ATRC. On October 2, 2018, the last reported sale price of our common stock on The NASDAQ Global Market was \$33.66 per share.

	Per Share	Total
Public offering price	\$	\$
Underwriting discounts and commissions(1)	\$	\$
Proceeds to AtriCure, Inc., before expenses	\$	\$

(1) See Underwriting for a description of compensation payable to the underwriters. We have granted the underwriters an option for a period of 30 days to purchase from us up to 375,000 additional shares of our common stock.

Investing in our common stock involves a high degree of risk. See Risk factors beginning on page 11 of our Annual Report on Form 10-K for the year ended December 31, 2017 and on page S-6 of this prospectus supplement.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of this prospectus supplement or the accompanying prospectus. Any representation to the contrary is a criminal offense.

The underwriters expect to deliver the shares to purchasers on or about October , 2018.

Joint Book-Running Managers

J.P. Morgan

Piper Jaffray

Co-Managers

Canaccord Genuity

Leerink Partners

Stifel

October , 2018

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We provide information to you about this offering of shares of our common stock in two separate documents that are bound together: (1) this prospectus supplement, which describes the specific details regarding this offering and also adds to and updates information contained in the accompanying prospectus and the documents incorporated by reference into this prospectus supplement and the accompanying prospectus; and (2) the accompanying prospectus, which provides general information, some of which may not apply to this offering. Generally, when we refer to this prospectus, we are referring to both documents combined. If information in this prospectus supplement is inconsistent with the accompanying prospectus or in any document incorporated by reference that was filed with the Securities and Exchange Commission (SEC) before the date of this prospectus supplement, you should rely on this prospectus supplement.

We and the underwriters have not authorized anyone to provide any information or to make any representations other than those contained or incorporated by reference in this prospectus supplement and the accompanying prospectus, or in any free writing prospectuses prepared by us or on our behalf or to which we have referred you. We and the underwriters take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. We and the underwriters are not making an offer to sell these securities in any jurisdiction where the offer or sale is not permitted. You should not assume that the information contained in this prospectus supplement and the accompanying prospectus or the documents incorporated herein and therein by reference are accurate as of any date other than their respective dates. Our business, financial condition, and results of operations may have changed since those dates. It is important for you to read and consider all information contained in this prospectus supplement and the accompanying prospectus, including the documents incorporated by reference herein and therein, and any related free writing prospectus, in making your investment decision. You should also read and consider the information in the documents to which we have referred you in the sections entitled Where you can find more information and Important information incorporated by reference in this prospectus supplement and in the accompanying prospectus.

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Prospectus supplement summary

*The items in the following summary are described in more detail later in this prospectus supplement, in the accompanying prospectus and in the documents incorporated by reference herein and therein. This summary provides an overview of selected information and does not contain all the information you should consider before investing in our common stock. Therefore, you should carefully read this prospectus supplement and the accompanying prospectus, including the documents incorporated by reference, which are described under *Where you can find more information* and *Incorporation of documents by reference* in this prospectus supplement. You should also carefully consider the matters discussed in the sections in this prospectus entitled *Risk factors* in the accompanying prospectus and in other periodic reports incorporated herein by reference.*

Our business

We are a leading innovator in treatments for atrial fibrillation (Afib) and left atrial appendage (LAA) management. We have several product lines for the ablation of cardiac tissue, including our Isolator[®] Synergy Ablation System, the first and only surgical device approved by the United States Food and Drug Administration (FDA) for the treatment of persistent and longstanding persistent forms of Afib in patients undergoing certain open heart procedures. We also offer a variety of minimally invasive ablation devices and access tools to facilitate the growing trend in less invasive cardiac and thoracic surgery. Our cryoICE[®] cryosurgery product line offers a variety of cryoablation devices for use in multiple types of cardiothoracic surgery. Our AtriClip[®] Left Atrial Appendage Exclusion System is specifically designed to occlude the heart's left atrial appendage.

Afib affects approximately 1% of the population in the United States. It is the most common cardiac arrhythmia, or irregular heartbeat, encountered in clinical practice and accounts for more doctor visits and hospital days than any other cardiac arrhythmia. When a patient is in Afib, abnormal electrical impulses cause the atria, or upper chambers of the heart, to fibrillate, or beat rapidly, irregularly, and in an uncoordinated fashion. As a result, blood in the atria may become static, increasing the risk that a blood clot will form and cause a stroke or other serious complications. Symptoms of Afib may include heart palpitations, dizziness, fatigue and shortness of breath, and these symptoms may be debilitating and life threatening in some cases. Patients often progress from being in Afib intermittently to being in Afib continuously. Afib often occurs in conjunction with other cardiovascular diseases, including hypertension, congestive heart failure, left ventricular dysfunction, coronary artery disease and valvular disease.

Physicians have adopted our radiofrequency (RF) ablation and cryoablation systems to treat Afib in over 275,000 patients since 2004, and we believe that we are currently the market leader in the surgical treatment of Afib. Our products are used by physicians during both open-heart and minimally invasive surgical procedures, either on a concomitant or standalone basis. During a concomitant procedure, the physician ablates cardiac tissue and/or occludes the LAA, secondary, or concomitant, to a primary structural heart procedure such as a valve repair or replacement or coronary artery bypass graft (CABG). Our Isolator Synergy System is approved by FDA for the treatment of persistent and long-standing persistent Afib concomitant to other open-heart surgical procedures. Our other ablation devices are all cleared for sale under FDA 510(k) clearances, including our other RF and cryoablation products, which are indicated for the ablation of cardiac tissue and/or the treatment of cardiac arrhythmias. In addition, our cryoICE probe is cleared for managing pain by temporarily ablating peripheral nerves. Our AtriClip products are 510(k)-cleared with an indication for the occlusion of the heart's LAA, in conjunction with other cardiac surgical procedures. We also have a line of reusable surgical instruments typically used in cardiac valve replacement or repair. Certain of our products also bear the CE mark and may be commercially distributed throughout the member states of the European Union

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and other countries that comply with or mirror the medical device directives. We anticipate that substantially all of our revenue for the foreseeable future will relate to products we currently sell, or are in the process of developing.

In the United States, we sell our products to medical centers through our direct sales force. In certain international markets, such as Germany, France, the United Kingdom and the Benelux region, we also sell our products directly to medical centers, while other international sales are made to distributors who in turn sell our products to end users. Our business is primarily transacted in U.S. Dollars with the exception of transactions in Europe, which are transacted in Euros or British Pounds.

Recent developments

Acquisition-related contingent consideration.

We acquired nContact Surgical, Inc. (nContact) pursuant to a merger agreement dated October 4, 2015. The merger agreement provides for contingent consideration, or an earnout , to be paid upon attaining specified regulatory approvals and clinical and revenue milestones. In August 2018 we announced that we had achieved one of the clinical milestones when we completed enrollment of 153 patients in the CONVERGE IDE clinical trial. As a result of the achievement of this clinical milestone, we made cash payments totaling approximately \$1.2 million and issued and delivered 231,963 shares of common stock to the former shareholders of nContact on September 20, 2018. All of the shares issued and delivered have been registered for resale.

Preliminary estimates for three months ended September 30, 2018

Our condensed consolidated financial statements for the three months ended September 30, 2018 are not yet available. Accordingly, the information presented below reflects our preliminary estimates subject to the completion of our financial closing procedures and any adjustments that may result from the completion of the quarterly review of our condensed consolidated financial statements. As a result, these preliminary estimates may differ from the actual results that will be reflected in our condensed consolidated financial statements for the quarter when they are completed and publicly disclosed. These preliminary estimates may change and those changes may be material.

Our expectations with respect to our unaudited results for the period discussed below are based upon management estimates and are the responsibility of management. Our independent registered public accounting firm has not audited, reviewed or performed any procedures with respect to these preliminary results and, accordingly, does not express an opinion or any other form of assurance about them.

Preliminary and unaudited revenue for the third quarter of 2018 is expected to be approximately \$49.9 million, reflecting growth of approximately 18.5% over the third quarter of 2017 (18.6% on a constant currency basis). Based on this preliminary estimate, U.S. revenue is expected to be approximately \$39.8 million, reflecting growth of 19.1% over the third quarter of 2017. International revenue is expected to be approximately \$10.2 million, an increase of 16.2% as compared to the third quarter of 2017 (16.9% on a constant currency basis). Loss from operations is expected to be in the range of \$6.0 million to \$7.5 million for the third quarter of 2018.

To supplement AtriCure's condensed consolidated financial statements prepared in accordance with accounting principles generally accepted in the United States of America, or GAAP, we use certain non-GAAP financial measures.

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Revenue reported on a constant currency basis is a non-GAAP measure and calculated by applying previous period foreign currency exchange rates, which is determined by the average daily Euro to Dollar exchange rate, to each of the comparable periods. Management analyzes revenue on a constant currency basis to better measure the comparability of results between periods. Because changes in foreign currency exchange rates have a non-operating impact on revenue, management believes that evaluating growth in revenue on a constant currency basis provides an additional and meaningful assessment of revenue to both management and the company's investors.

Corporate information

We were incorporated in the State of Delaware as AtriCure, Inc. on October 31, 2000. Our principal executive offices are located at 7555 Innovation Way, Mason, Ohio 45040, and our main telephone number is (513) 755-4100. Our internet website address is <http://www.atricure.com>. We do not incorporate by reference into this prospectus supplement or the accompanying prospectus the information on, or accessible through, our website, and you should not consider it as part of this prospectus supplement or the accompanying prospectus.

Table of Contents**Summary consolidated financial data**

The following tables summarize our consolidated financial data. We have derived the summary consolidated statement of operations data for the years ended December 31, 2015, 2016 and 2017, from our audited consolidated financial statements incorporated by reference into this prospectus supplement from our Annual Report on Form 10-K for the years ended December 31, 2017 and 2016. We have derived the summary consolidated statement of operations data for the six month periods ended June 30, 2018 and 2017 and our consolidated balance sheet data as of June 30, 2018 and 2017, from our unaudited condensed consolidated financial statements incorporated by reference into this prospectus supplement from our Quarterly Report on Form 10-Q for the quarterly periods ended June 30, 2018 and 2017. The unaudited interim condensed consolidated financial statements have been prepared on the same basis as the audited financial statements and reflect, in the opinion of management, all adjustments, which include only normal, recurring adjustments that are necessary to present fairly the unaudited interim condensed consolidated financial statements. Our historical results are not necessarily indicative of the results that may be expected in the future and our results for the six months ended June 30, 2018 are not necessarily indicative of the results to be expected for the full year. The following summary consolidated financial data should be read in conjunction with the section titled "Management's Discussion and Analysis of Financial Condition and Results of Operations" and our consolidated financial statements and related notes that are incorporated by reference into this prospectus supplement from our Annual Report on Form 10-K for the years ended December 31, 2017 and 2016, and from our Quarterly Report on Form 10-Q for the quarters ended June 30, 2018 and 2017.

(in thousands, except per share amounts)	Six months ended		Twelve months ended December 31,		
	2018	June 30, 2017 (unaudited)	2017	2016	2015
Consolidated Statement of Operations Data:					
Total revenue	\$ 98,796	\$ 86,504	\$ 174,716	\$ 155,109	\$ 129,755
Gross profit	72,582	62,562	126,163	111,101	92,875
Loss from operations	(8,472)	(15,997)	(24,979)	(31,138)	(26,720)
Net loss	(10,472)	(17,066)	(26,892)	(33,338)	(27,212)
Basic and diluted net loss per share	(0.32)	(0.53)	(0.83)	(1.05)	(0.97)
Shares used in computing net loss per share:					
Basic and diluted	33,117	32,154	32,387	31,609	28,058
	As of June 30,		As of December 31,		
	2018	2017	2017	2016	2015
Consolidated Balance Sheet Data:					
Cash and cash equivalents	\$ 13,866	\$ 21,013	\$ 21,809	\$ 24,208	\$ 23,764
Total investments	23,202	13,965	12,642	22,801	18,520
Total assets	270,847	268,510	267,704	276,421	273,092
Total liabilities	111,160	107,009	106,538	107,979	86,407
Total stockholders' equity	159,687	161,501	161,166	168,442	186,685

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The offering

Common stock offered by AtriCure 2,500,000 shares.

Common stock to be outstanding after this offering 37,812,869 shares (or 38,187,869 shares if the underwriters exercise their option to purchase additional shares in full).

Option to purchase additional shares We have granted to the underwriters the option, exercisable for 30 days from the date of this prospectus supplement, to purchase up to 375,000 additional shares of our common stock.

Use of proceeds We estimate that the net proceeds to us from this offering will be approximately \$78.80 million, or approximately \$90.67 million if the underwriters exercise their option to purchase additional shares of common stock from us in full, based upon an assumed public offering price of \$33.66, the last reported sale price of our common stock on The NASDAQ Global Market on October 2, 2018, and after deducting the underwriting discounts and commissions and estimated offering expenses payable by us.

We intend to use the net proceeds from this offering for working capital and other general corporate purposes, which may include repayment of debt, the possible pursuit of strategic acquisitions, and other potential corporate or market development activities. See [Use of proceeds](#) .

Risk factors You should read the [Risk Factors](#) beginning on page 11 of our Annual Report on Form 10-K for the year ended December 31, 2017, on page S-6 of this prospectus supplement and in the documents incorporated by reference in this prospectus supplement and the accompanying prospectus for a discussion of factors to consider before deciding to purchase shares of our common stock.

NASDAQ Global Market symbol ATRC

The number of shares of common stock to be outstanding after this offering as reflected in the table above is based on the actual number of shares outstanding as of June 30, 2018, which was 35,312,869, and does not include, as of that date:

231,963 shares of common stock issued and delivered to the former shareholders of nContact on September 20, 2018 pursuant to the merger agreement as contingent consideration;

1,773,992 shares of common stock issuable upon the exercise of outstanding options, with a weighted average exercise price of \$12.96 per share (including 105,644 shares of common stock that were issued upon the exercise of options from July 1, 2018 through October 2, 2018);

17,500 options granted under our 2014 Stock Incentive Plan, as amended, from July 1, 2018 through October 2, 2018;

1,362,708 shares of common stock reserved for future issuance under our 2014 Stock Incentive Plan, as amended; and

635,828 shares of common stock reserved for future issuance under our Employee Stock Purchase Plan.

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Unless otherwise stated in this prospectus supplement, we have assumed throughout this prospectus supplement that the option granted to the underwriters to purchase additional shares from us will not be exercised.

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Risk factors

*Investing in our common stock involves a high degree of risk. Before you make a decision to invest in our common stock, you should consider carefully the risks described below, together with other information in this prospectus supplement, the accompanying prospectus and the information incorporated by reference herein and therein. If any of the following events actually occur, our business, operating results, prospects or financial condition could be materially and adversely affected. This could cause the trading price of our common stock to decline and you may lose all or part of your investment. The risks described below are not the only ones that we face. Additional risks not presently known to us or that we currently deem immaterial may also significantly impair our business operations and could result in a complete loss of your investment. See **Risk Factors** beginning on page 11 of our Annual Report on Form 10-K for the year ended December 31, 2017 incorporated by reference in this prospectus supplement and the accompanying prospectus for a discussion of other factors to consider before deciding to purchase shares of our common stock.*

Risks related to this offering

Our management will have broad discretion as to the use of the proceeds from this offering, and we may not use the proceeds effectively.

We have not designated any portion of the net proceeds from this offering to be used for any particular purpose other than as we may describe in this prospectus supplement. Accordingly, our management will have broad discretion as to the application of the net proceeds from this offering, and could spend the proceeds in ways that do not necessarily improve our operating results or enhance the value of our common stock.

You will experience immediate dilution in the book value per share of the common stock you purchase.

Because the price per share of our common stock being offered is substantially higher than the book value per share of our common stock, you will suffer substantial dilution in the net tangible book value of the common stock you purchase in this offering. After giving effect to the sale by us of 2,500,000 shares of common stock in this offering, based on an assumed public offering price of \$33.66 per share in this offering, the last reported sale price of our common stock on the NASDAQ Global Market on October 2, 2018, and after deducting the underwriting discounts and commissions and estimated offering expenses payable by us, and based on a net tangible book value of our common stock of \$4.4 million, or \$0.12 per share, as of June 30, 2018, if you purchase shares of common stock in this offering, you will suffer immediate and substantial dilution of \$31.46 per share in the net tangible book value of the common stock. If the underwriters exercise their option to purchase additional shares from us, you will experience additional dilution. See **Dilution** on page S-14 for a more detailed discussion of the dilution you will incur in connection with this offering.

Future sales of a substantial number of shares of our common stock by our existing securityholders could cause our stock price to decline.

If our existing stockholders sell, or indicate an intention to sell, substantial amounts of our common stock in the public market, the trading price of our common stock could decline. A number of shares of common stock are subject to outstanding options and are or will become eligible for sale in the public market to the extent permitted by the provisions of various vesting schedules. In addition, on September 20, 2018, we issued and delivered 231,963 shares of common stock to the former shareholders of nContact pursuant to the merger agreement as contingent consideration. All of the shares issued and delivered have been registered for resale. The nContact transaction provides for contingent consideration to be paid upon attaining additional specified regulatory approvals and revenue milestones over the next three years. Subject to the terms and conditions of the nContact merger agreement, such contingent consideration will be paid in shares of AtriCure common stock and cash, with a requirement to make payments in shares of AtriCure common stock first, up to a specified

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maximum number of shares. If these additional shares of common stock are sold, or if it is perceived that they will be sold, in the public market, the trading price of our common stock could decline.

Our executive officers and directors have agreed that, subject to limited exceptions, during the period ending 90 days after the date of this prospectus supplement, they may not, without the prior written consent of the representatives, (1) offer, pledge, announce the intention to sell, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, or otherwise transfer or dispose of, directly or indirectly, any shares of our common stock or any securities convertible into or exercisable or exchangeable for our common stock (including, without limitation, common stock or such other securities which may be deemed to be beneficially owned by such directors, executive officers, managers and members in accordance with the rules and regulations of the SEC and securities which may be issued upon exercise of a stock option or warrant) or (2) enter into any swap or other agreement that transfers, in whole or in part, any of the economic consequences of ownership of the common stock or such other securities, whether any such transaction described in clause (1) or (2) above is to be settled by delivery of common stock or such other securities, in cash or otherwise, or (3) make any demand for or exercise any right with respect to the registration of any shares of our common stock or any security convertible into or exercisable or exchangeable for our common stock. See Underwriting .

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Special note regarding forward looking statements

This prospectus supplement and the accompanying prospectus, including the documents incorporated by reference herein and therein, and other information that we may furnish to the SEC contain forward looking statements about us, our future performance and our industry that involve substantial risks and uncertainties. We intend such forward looking statements to be covered by the safe harbor provisions for forward looking statements contained in Section 21E of the Securities Exchange Act of 1934, as amended, and Section 27A of the Securities Act of 1933, as amended. All statements, other than statements of historical facts, included in this prospectus supplement and the accompanying prospectus and information that we furnish to or file with the SEC regarding our strategy, future operations, future financial position, future net sales, projected expenses, products placements, performance and acceptance, prospects and plans and management's objectives, as well as the growth of the overall market for our products in general and certain products in particular and the relative performance of other market participants are forward looking statements. These statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievement to be materially different from those expressed or implied by the forward looking statements.

In some cases, you can identify forward looking statements by terms such as anticipate, believe, estimate, hope, expect, seek, intend, plan, project, will, would, should, could, can, predict, potential, continue, objective, target or the negative of these terms intended to identify forward looking statements. However, not all forward looking statements contain these identifying words. These forward looking statements reflect our current views about activities, events or developments that we expect, believe or anticipate will or may occur in the future and are based on assumptions and subject to risks and uncertainties which may cause actual results, performance or achievements to differ materially from those expressed or implied. Forward-looking statements are based on our experience and perception of current conditions, trends, expected future developments and other factors we believe are appropriate under the circumstances and are subject to numerous risks and uncertainties, many of which are beyond our control. Given these uncertainties, you should not place undue reliance on these forward looking statements. All forward-looking information is inherently uncertain and actual results may differ materially from assumptions, estimates or expectations reflected or contained in the forward-looking statements as a result of various factors, including but not limited to:

the ability of our products to achieve widespread market acceptance within the medical community as a standard treatment alternative for the surgical treatment of Afib during open-heart surgical procedures and as a sole-therapy minimally invasive procedure;

our receipt of additional FDA approvals to promote our products for the treatment of Afib or reduction in stroke risk, which is conditioned on the safety and efficacy of our products as demonstrated in clinical trials;

our reliance that our ablation, ablation related, and LAA management products will continue to be the primary source of revenue and will not become obsolete;

competition from new and existing products and procedures in the highly competitive medical device industry;

failure of government or third party payors to reimburse our customers for the use of our clinical diagnostic products or reduction of reimbursement levels, which could harm our ability to promote and sell our products;

failure of our products to perform as expected or to obtain certain approvals or the questioning of the reliability of the technology on which our products are based or the questioning of the promotion by

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regulatory authorities of our products as off-label , which could cause lost revenue, delayed or reduced market acceptance of our products, increased costs and damage to our reputation;

our ability to consummate acquisitions or, if consummated, to successfully integrate acquired businesses into our operations and to recognize the benefits of acquisitions, including potential synergies and cost savings;

failure of an acquisition or acquired company to achieve its plans and objectives generally, and risk that proposed or consummated acquisitions may disrupt operations or pose difficulties in employee retention or otherwise affect financial or operating results;

our ability to retain our current employees and/or require additional qualified personnel, upon whom the success of our business is highly dependent;

domestic and foreign political developments, which may adversely affect our effective tax rate and global economic conditions, including trade wars and tariffs, which could interrupt or harm our operations and earnings;

risks related to legal proceedings, including litigation, regulatory investigations, and other proceedings related to our compliance with applicable laws and regulations;

our issuance of additional shares of common stock to former stockholders of nContact as a result of the satisfaction of certain milestones set forth in the merger agreement with nContact and the other parties thereto, which could result in ownership dilution and depression of our stock price;

our actual results for the third quarter of fiscal 2018 may differ from the preliminary results set forth under Prospectus Supplement Summary Recent Developments ; and

those set forth under Risk Factors in our Annual Report on Form 10 K for the year ended December 31, 2017.

These forward looking statements represent our estimates and assumptions only as of the date of this prospectus supplement. Unless required by U.S. federal securities laws, we do not intend to publicly update or revise any of these forward looking statements to reflect new information or future events or otherwise. This prospectus supplement and the accompanying prospectus should be read in conjunction with our consolidated financial statements and notes thereto appearing in our Annual Report on Form 10 K. You should carefully consider all the information in or incorporated by reference in this prospectus supplement and the accompanying prospectus prior to investing in our securities.

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Use of proceeds

We estimate that the net proceeds to us from this offering will be approximately \$78.80 million, or approximately \$90.67 million if the underwriters exercise their option to purchase additional shares of common stock from us in full, based upon an assumed public offering price of \$33.66, the last reported sale price of our common stock on The NASDAQ Global Market on October 2, 2018, and after deducting the underwriting discounts and commissions and estimated offering expenses payable by us.

We intend to use the net proceeds from this offering for working capital and other general corporate purposes, which may include repayment of debt, the possible pursuit of strategic acquisitions, and other potential corporate or market development activities.

The amounts and timing of our use of proceeds will depend on a number of factors, such as the timing and availability of corporate and market development opportunities. As of the date of this prospectus supplement, we cannot specify with certainty the particular uses for the net proceeds to us from this offering. Accordingly, our management will have broad discretion in the application of these proceeds. Pending application of the net proceeds as described above, we intend to invest the proceeds in short and intermediate-term, interest-bearing obligations, investment grade debt instruments, or direct or guaranteed obligations of the U.S. government.

Dividend policy

We have never paid any cash dividends on our capital stock and do not anticipate paying any cash dividends on our common stock in the foreseeable future. We intend to retain future earnings to fund ongoing operations and future capital requirements. Any future determination to pay cash dividends will be at the discretion of our board of directors and will be dependent upon financial condition, results of operations, capital requirements and such other factors as the board of directors deems relevant.

Table of Contents**Price range of our common stock**

Our common stock is listed on The NASDAQ Global Market under the symbol **ATRC**. The following table sets forth the high and low intraday trading price per share of our common stock as reported on The NASDAQ Global Market for the periods indicated:

	High	Low
2016		
First Quarter	\$ 21.47	\$ 15.27
Second Quarter	\$ 17.75	\$ 13.57
Third Quarter	\$ 17.19	\$ 13.54
Fourth Quarter	\$ 20.06	\$ 15.20
2017		
First Quarter	\$ 19.20	\$ 14.24
Second Quarter	\$ 24.65	\$ 18.54
Third Quarter	\$ 24.88	\$ 20.00
Fourth Quarter	\$ 23.44	\$ 17.69
2018		
First Quarter	\$ 21.03	\$ 15.05
Second Quarter	\$ 30.28	\$ 19.65
Third Quarter	\$ 35.58	\$ 27.62
Fourth Quarter (through October 2, 2018)	\$ 34.85	\$ 33.66

On October 2, 2018, the last reported sale price of our common stock on The NASDAQ Global Market was \$33.66 per share. As of October 2, 2018, there were approximately 106 holders of record of our common stock.

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The following table sets forth our cash and cash equivalents and investments and capitalization as of June 30, 2018 on:

an actual basis; and

on an as adjusted basis to give effect to the assumed issuance and sale by us of 2,500,000 shares in this offering, and the receipt of the net proceeds from our sale of these shares, at the assumed public offering price of \$33.66 per share, the last reported sale price per share of our common stock on The NASDAQ Global Market on October 2, 2018, and after deducting the underwriting discounts and commissions and estimated offering expenses payable by us (assuming no exercise of the underwriters' option to purchase additional shares).

The table below should be read in conjunction with the sections titled "Management's Discussion and Analysis of Financial Condition and Results of Operations" and our condensed consolidated financial statements and the accompanying notes included in our Quarterly Report on Form 10-Q for the quarter ended June 30, 2018 and in our Annual Report on Form 10-K for the year ended December 31, 2017, each of which is incorporated by reference herein.

	June 30, 2018	
	Actual	As adjusted (unaudited)
(in thousands, except share and per share data)		
Cash, cash equivalents and investments	\$ 37,068	\$ 115,869
Debt		
Revolving line of credit(1)	\$	\$
Term loan debt, net of deferred financing costs(1)	39,399	39,399
Total debt	39,399	39,399
Stockholder's equity:		
Common stock, \$0.001 par value; 90,000,000 shares authorized; 35,312,869 shares issued and outstanding, actual; 37,812,869 shares issued and outstanding, as adjusted	35	38
Preferred stock, \$0.001 par value; 10,000,000 shares authorized; no shares issued or outstanding, actual and as adjusted		
Additional paid-in capital	396,088	474,886
Accumulated other comprehensive loss	(98)	(98)
Accumulated deficit	(236,338)	(236,338)
Total stockholders' equity	159,687	238,488
Total capitalization	\$ 199,086	\$ 277,887

- (1) Our loan and security agreement includes a \$40,000 term loan and a \$20,000 revolving line of credit, with an option to increase the revolving line of credit by up to an additional \$20,000. The term loan and revolving line of credit each have a five-year term, maturing or expiring, as applicable, in February 2023. Borrowing availability under the revolving credit facility is based on the lesser of \$20,000 or a borrowing base calculation, as defined. As of June 30, 2018, we had no borrowings under the revolving credit facility and had borrowing availability of \$18,750. Deferred financing costs related to the term loan total \$601 and are netted against the outstanding term loan balance.

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The information above is based on 35,312,869 shares of our common stock outstanding as of June 30, 2018 and does not include:

231,963 shares of common stock issued and delivered to the former shareholders of nContact on September 20, 2018 pursuant to the merger agreement as contingent consideration;

1,773,992 shares of common stock issuable upon the exercise of outstanding options, with a weighted average exercise price of \$12.96 per share (including 105,644 shares of common stock that were issued upon the exercise of options from July 1, 2018 through October 2, 2018);

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17,500 options granted under our 2014 Stock Incentive Plan, as amended, from July 1, 2018 through October 2, 2018;

1,362,708 shares of common stock reserved for future issuance under our 2014 Stock Incentive Plan, as amended; and

635,828 shares of common stock reserved for future issuance under our Employee Stock Purchase Plan.

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Table of Contents**Dilution**

Our net tangible book value on June 30, 2018 was approximately \$4.4 million, or \$0.12 per share of common stock. Net tangible book value is total assets minus the sum of liabilities and intangible assets including goodwill. Net tangible book value per share is net tangible book value divided by the total number of shares of common stock outstanding. After giving effect to the sale of shares of common stock offered by us in this offering at the assumed public offering price of \$33.66 per share, the last reported sale price of our common stock on the NASDAQ Global Market on October 2, 2018 and after deducting the underwriting discounts and commissions and estimated offering expenses payable by us, our pro forma as adjusted net tangible book value on June 30, 2018 would have been approximately \$83.2 million, or \$2.20 per share of common stock. The following table illustrates this dilution on a per share basis:

Assumed public offering price per share	\$ 33.66
Net tangible book value per share as of June 30, 2018	\$ 0.12
Increase in net tangible book value per share attributable to offering	\$ 2.08
As adjusted net tangible book value per share as of June 30, 2018 after giving effect to the offering	\$ 2.20
Dilution per share to investors in the offering	\$ 31.46

The information above assumes that the underwriters do not exercise their option to purchase additional shares. If the underwriters exercise their option to purchase 375,000 additional shares in full based on the assumed public offering price of \$33.66 per share, the last reported sale price of our common stock on the NASDAQ Global Market on October 2, 2018, the as adjusted net tangible book value after this offering would be approximately \$2.49 per share, representing an increase in net tangible book value of approximately \$2.37 per share to existing stockholders and immediate dilution in net tangible book value of approximately \$31.17 per share to new investors purchasing our common stock in this offering at the public offering price.

The above discussion and table are based on 35,312,869 common shares outstanding at June 30, 2018, and do not include, as of that date:

231,963 shares of common stock issued and delivered to the former shareholders of nContact on September 20, 2018 pursuant to the merger agreement as contingent consideration;

1,773,992 shares of common stock issuable upon the exercise of outstanding options, with a weighted average exercise price of \$12.96 per share (including 105,644 shares of common stock that were issued upon the exercise of options from July 1, 2018 through October 2, 2018);

17,500 options granted under our 2014 Stock Incentive Plan, as amended, from July 1, 2018 through October 2, 2018;

1,362,708 shares of common stock reserved for future issuance under our 2014 Stock Incentive Plan, as amended; and

635,828 shares of common stock reserved for future issuance under our Employee Stock Purchase Plan.

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Material U.S. federal income and estate tax consequences for Non-U.S. Holders of common stock

The following are the material U.S. federal income and estate tax consequences of the ownership and disposition of our common stock acquired in this offering by a Non-U.S. Holder that holds our common stock as a capital asset within the meaning of Section 1221 of the Internal Revenue Code of 1986, as amended, or the Code, and does not own, and has not owned, actually or constructively, more than 5% of our common stock. You are a Non-U.S. Holder if for U.S. federal income tax purposes you are a beneficial owner of our common stock that is:

- a nonresident alien individual;
- a foreign corporation; or
- a foreign estate or trust.

You are not a Non-U.S. Holder if you are a nonresident alien individual present in the United States for 183 days or more in the taxable year of disposition, or if you are a former citizen or former resident of the United States for U.S. federal income tax purposes. If you are such a person, you should consult your tax advisor regarding the U.S. federal income tax consequences of the ownership and disposition of our common stock.

If you are a partnership for U.S. federal income tax purposes, the U.S. federal income tax treatment of a partner will generally depend on the status of the partner and your activities. Accordingly, partnerships holding our common stock and the partners in such partnerships should consult their tax advisors regarding the U.S. federal income tax consequences to them of the ownership and disposition of our common stock.

This discussion is based on the Code, administrative pronouncements, judicial decisions and final, temporary and proposed Treasury regulations, changes to any of which subsequent to the date of this prospectus supplement may affect the tax consequences described herein, possibly with retroactive effect. This discussion does not describe all of the tax consequences that may be relevant to you in light of your particular circumstances, including alternative minimum tax and Medicare contribution tax consequences and does not address any aspect of state, local or non-U.S. taxation, or any taxes other than income and estate taxes. You should consult your tax advisor with regard to the application of the U.S. federal tax laws to your particular situation, as well as any tax consequences arising under the laws of any state, local or non-U.S. taxing jurisdiction.

Dividends

As discussed under **Dividend policy** above, we do not currently expect to make distributions on our common stock. In the event that we do make distributions of cash or other property, those distributions will constitute dividends for U.S. federal income tax purposes to the extent paid from our current or accumulated earnings and profits, as determined under U.S. federal income tax principles. To the extent those distributions exceed our current and accumulated earnings and profits, they will constitute a return of capital, which will first reduce your basis in our common stock, but not below zero, and then will be treated as gain from the sale of our common stock, as described below under **Gain on disposition of our common stock**.

Dividends paid to you generally will be subject to withholding tax at a 30% rate or a reduced rate specified by an applicable income tax treaty. In order to obtain a reduced rate of withholding (subject to the discussion below under **FATCA**), you will be required to provide a properly executed applicable Internal Revenue Service (**IRS**) Form W-8 certifying your entitlement to benefits under a treaty.

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If dividends paid to you are effectively connected with your conduct of a trade or business in the United States (and, if required by an applicable income tax treaty, are attributable to a permanent establishment or fixed base maintained by you in the United States), you will generally be taxed on the dividends in the same manner as a U.S. person. In this case, you will be exempt from the withholding tax discussed in the preceding paragraph, although you will be required to provide a properly executed IRS Form W-8ECI in order to claim an exemption from withholding. You should consult your tax advisor with respect to other U.S. tax consequences of the ownership and disposition of our common stock, including the possible imposition of a branch profits tax at a rate of 30% (or a lower treaty rate) if you are a corporation.

Gain on disposition of our common stock

Subject to the discussions below under Information reporting and backup withholding and FATCA, you generally will not be subject to U.S. federal income or withholding tax on gain realized on a sale or other taxable disposition of our common stock unless:

the gain is effectively connected with your conduct of a trade or business in the United States (and, if required by an applicable income tax treaty, is attributable to a permanent establishment or fixed base maintained by you in the United States), or

we are or have been a United States real property holding corporation, as defined in the Code, at any time within the five-year period preceding the disposition or your holding period, whichever period is shorter, and our common stock has ceased to be regularly traded on an established securities market prior to the beginning of the calendar year in which the sale or disposition occurs.

We believe that we are not, and do not anticipate becoming, a United States real property holding corporation.

If you recognize gain on a sale or other disposition of our common stock that is effectively connected with your conduct of a trade or business in the United States (and if required by an applicable income tax treaty, is attributable to a permanent establishment or fixed base maintained by you in the United States), you will generally be taxed on such gain in the same manner as a U.S. person. You should consult your tax advisor with respect to other U.S. tax consequences of the ownership and disposition of our common stock, including the possible imposition of a branch profits tax at a rate of 30% (or a lower treaty rate) if you are a corporation.

Information reporting and backup withholding

Information returns are required to be filed with the IRS in connection with payments of dividends on our common stock. Unless you comply with certification procedures to establish that you are not a U.S. person, information returns may also be filed with the IRS in connection with the proceeds from a sale or other disposition of our common stock. You may be subject to backup withholding on payments on our common stock or on the proceeds from a sale or other disposition of our common stock unless you comply with certification procedures to establish that you are not a U.S. person or otherwise establish an exemption. Your provision of a properly executed applicable IRS Form W-8 certifying your non-U.S. status will permit you to avoid backup withholding. Amounts withheld under the backup withholding rules are not additional taxes and may be refunded or credited against your U.S. federal income tax liability, provided the required information is timely furnished to the IRS.

FATCA

Provisions of the Code and related U.S. Treasury guidance commonly referred to as FATCA require withholding of 30% on payments of dividends on our common stock, as well as of gross proceeds of dispositions

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occurring after December 31, 2018 of our common stock, to foreign financial institutions (which is broadly defined for this purpose and in general includes investment vehicles) and certain other non-U.S. entities unless various U.S. information reporting and due diligence requirements (generally relating to ownership by U.S. persons of interests in or accounts with those entities) have been satisfied, or an exemption applies. An intergovernmental agreement between the United States and an applicable foreign country may modify these requirements. If FATCA withholding is imposed, a beneficial owner that is not a foreign financial institution generally may obtain a refund of any amounts withheld by filing a U.S. federal income tax return (which may entail significant administrative burden). You should consult your tax advisor regarding the effects of FATCA on your investment in our common stock.

Federal estate tax

Individuals who are not citizens or residents of the United States (as defined for U.S. federal estate tax purposes) and entities the property of which is potentially includible in such an individual's gross estate for U.S. federal estate tax purposes (for example, a trust funded by such an individual and with respect to which the individual has retained certain interests or powers), should note that, absent an applicable treaty exemption, our common stock will be treated as U.S.-situs property subject to U.S. federal estate tax.

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Underwriting

We are offering the shares of common stock described in this prospectus supplement through a number of underwriters. J.P. Morgan Securities LLC and Piper Jaffray & Co. are acting as joint book running managers of the offering and as representatives of the underwriters. We have entered into an underwriting agreement with the underwriters. Subject to the terms and conditions of the underwriting agreement, we have agreed to sell to the underwriters, and each underwriter has severally agreed to purchase, at the public offering price less the underwriting discounts and commissions set forth on the cover page of this prospectus supplement, the number of shares of common stock listed next to its name in the following table:

Name	Number of shares
J.P. Morgan Securities LLC	
Piper Jaffray & Co.	
Canaccord Genuity LLC	
Leerink Partners LLC	
Stifel, Nicolaus & Company, Incorporated	

Total

The underwriters are committed to purchase all the shares of common stock offered by us if they purchase any shares. The underwriting agreement also provides that if an underwriter defaults, the purchase commitments of non-defaulting underwriters may also be increased or the offering may be terminated.

The underwriters propose to offer the shares of common stock directly to the public at the public offering price set forth on the cover page of this prospectus supplement and to certain dealers at that price less a concession not in excess of \$ _____ per share. Any such dealers may resell shares to certain other brokers or dealers at a discount of up to \$ _____ per share from the public offering price. After the initial offering of the shares to the public, if all of the shares are not sold at the public offering price, the underwriters may change the offering price and the other selling terms.

The underwriters have an option to buy up to 375,000 additional shares of common stock from us to cover sales of shares by the underwriters which exceed the number of shares specified in the table above. The underwriters have 30 days from the date of this prospectus supplement to exercise this option to purchase additional shares. If any shares are purchased with this option to purchase additional shares, the underwriters will purchase shares in approximately the same proportion as shown in the table above. If any additional shares of common stock are purchased, the underwriters will offer the additional shares on the same terms as those on which the shares are being offered.

The underwriting fee is equal to the public offering price per share of common stock less the amount paid by the underwriters to us per share of common stock. The underwriting fee is \$ _____ per share. The following table shows the per share and total underwriting discounts and commissions to be paid to the underwriters assuming both no exercise and full exercise of the underwriters' option to purchase additional shares.

	Without option to purchase additional shares exercise	With full option to purchase additional shares exercise
Per Share	\$	\$
Total	\$	\$

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We estimate that the total expenses of this offering, including registration, filing and listing fees, printing fees and legal and accounting expenses, but excluding the underwriting discounts and commissions, will be approximately \$300,000.

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

We have agreed with the underwriters that we will not (i) offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, or otherwise transfer or dispose of, directly or indirectly, or submit to, or file with, the SEC a registration statement under the Securities Act of 1933 relating to, any shares of our common stock or any securities convertible into or exercisable or exchangeable for shares of our common stock, or publicly disclose the intention to make any offer, sale, pledge, disposition, submission or filing, or (ii) enter into any swap or other agreement that transfers, in whole or in part, any of the economic consequences of ownership of our common stock or any such other securities, whether any such transaction described in clause (i) or (ii) is to be settled by delivery of shares of our common stock or such other securities, in cash or otherwise, without the prior written consent of the representatives for a period of 90 days after the date of this prospectus supplement. The restrictions contained in the preceding sentence shall not apply to (A) the shares to be sold hereunder, (B) awards (or the filing of a registration statement on Form S-8 with the SEC in respect of such awards) pursuant to our existing equity incentive plans, (C) the sale of shares of our common stock to employees pursuant to our existing employee stock purchase plans, (D) the issuance of shares of our common stock upon the exercise of an option or warrant, and the vesting of equity awards outstanding under our existing equity incentive plans, or the conversion of a security outstanding on the date of the underwriting agreement, or (E) the issuance of shares of our common stock or any securities convertible into, or exercisable or exchangeable for, shares of our common stock in connection with any (1) mergers, (2) acquisition of assets, (3) joint ventures, (4) strategic alliances or licensing, collaboration or similar agreements, (5) partnerships with experts or other talent to develop or provide content or (6) equipment leasing arrangements; provided that (x) the aggregate number of shares of our common stock or securities convertible into, or exercisable or exchangeable for, shares of our common stock (on an as-converted or as-exercised basis, as the case may be) that we may issue pursuant to subclause (E) shall not exceed 10% of the number of shares of our common stock outstanding immediately after the issuance and sale of the shares, and (y) each recipient of any such shares or other securities executes a lock-up letter for the remainder of such 90-day restricted period. The foregoing agreement with the underwriters does not prohibit us from entering into one or more agreements to sell or issue shares of common stock or any securities convertible into, or exercisable or exchangeable for, shares of common stock in connection with transactions described in subclause (E)(1) through (6); provided that we do not issue shares in the aggregate in excess of the limit set forth in subclause (E) during a period of 90 days after the date of this prospectus supplement pursuant to such agreement or agreements.

Our directors and executive officers have entered into lock up agreements with the underwriters prior to the commencement of this offering pursuant to which each of these persons, with limited exceptions, for a period of 90 days after the date of this prospectus supplement, may not, without the prior written consent of the representatives, (1) offer, pledge, announce the intention to sell, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, or otherwise transfer or dispose of, directly or indirectly, any shares of our common stock or any securities convertible into or exercisable or exchangeable for our common stock (including, without limitation, common stock or such other securities which may be deemed to be beneficially owned by such directors, executive officers, managers and members in accordance with the rules and regulations of the SEC and securities which

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may be issued upon exercise of a stock option or warrant) or (2) enter into any swap or other agreement that transfers, in whole or in part, any of the economic consequences of ownership of the common stock or such other securities, whether any such transaction described in clause (1) or (2) above is to be settled by delivery of common stock or such other securities, in cash or otherwise, or (3) make any demand for or exercise any right with respect to the registration of any shares of our common stock or any security convertible into or exercisable or exchangeable for our common stock.

We have agreed to indemnify the underwriters against certain liabilities, including liabilities under the Securities Act of 1933.

In connection with this offering, the underwriters may engage in stabilizing transactions, which involves making bids for, purchasing and selling shares of common stock in the open market for the purpose of preventing or retarding a decline in the market price of the common stock while this offering is in progress. These stabilizing transactions may include making short sales of the common stock, which involves the sale by the underwriters of a greater number of shares of common stock than they are required to purchase in this offering, and purchasing shares of common stock on the open market to cover positions created by short sales. Short sales may be covered shorts, which are short positions in an amount not greater than the underwriters' option to purchase additional shares referred to above, or may be naked shorts, which are short positions in excess of that amount. The underwriters may close out any covered short position either by exercising their option to purchase additional shares, in whole or in part, or by purchasing shares in the open market. In making this determination, the underwriters will consider, among other things, the price of shares available for purchase in the open market compared to the price at which the underwriters may purchase shares through the option to purchase additional shares. A naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of the common stock in the open market that could adversely affect investors who purchase in this offering. To the extent that the underwriters create a naked short position, they will purchase shares in the open market to cover the position.

The underwriters have advised us that, pursuant to Regulation M of the Securities Act of 1933, they may also engage in other activities that stabilize, maintain or otherwise affect the price of the common stock, including the imposition of penalty bids. This means that if the representatives of the underwriters purchase common stock in the open market in stabilizing transactions or to cover short sales, the representatives can require the underwriters that sold those shares as part of this offering to repay the underwriting discount received by them.

These activities may have the effect of raising or maintaining the market price of the common stock or preventing or retarding a decline in the market price of the common stock, and, as a result, the price of the common stock may be higher than the price that otherwise might exist in the open market. If the underwriters commence these activities, they may discontinue them at any time. The underwriters may carry out these transactions on The NASDAQ Global Market, in the over the counter market or otherwise.

In addition, in connection with this offering certain of the underwriters (and selling group members) may engage in passive market making transactions in our common stock on The NASDAQ Global Market prior to the pricing and completion of this offering. Passive market making consists of displaying bids on The NASDAQ Global Market no higher than the bid prices of independent market makers and making purchases at prices no higher than these independent bids and effected in response to order flow. Net purchases by a passive market maker on each day are generally limited to a specified percentage of the passive market maker's average daily trading volume in the common stock during a specified period and must be discontinued when such limit is reached. Passive market making may cause the price of our common stock to be higher than the price that otherwise would exist in the open market in the absence of these transactions. If passive market making is commenced, it may be discontinued at any time.

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Other than in the United States, no action has been taken by us or the underwriters that would permit a public offering of the securities offered by this prospectus supplement in any jurisdiction where action for that purpose is required. The securities offered by this prospectus supplement may not be offered or sold, directly or indirectly, nor may this prospectus supplement or any other offering material or advertisements in connection with the offer and sale of any such securities be distributed or published in any jurisdiction, except under circumstances that will result in compliance with the applicable rules and regulations of that jurisdiction. Persons into whose possession this prospectus supplement comes are advised to inform themselves about and to observe any restrictions relating to the offering and the distribution of this prospectus supplement. This prospectus supplement does not constitute an offer to sell or a solicitation of an offer to buy any securities offered by this prospectus supplement in any jurisdiction in which such an offer or a solicitation is unlawful.

Our shares are quoted on The NASDAQ Global Market under the symbol ATRC.

Other relationships

The underwriters and their respective affiliates are full service financial institutions engaged in various activities, which may include securities trading, commercial and investment banking, financial advisory, investment management, investment research, principal investment, hedging, financing and brokerage activities. Certain of the underwriters and their affiliates have provided in the past to us and our affiliates and may provide from time to time in the future certain commercial banking, financial advisory, investment banking and other services for us and such affiliates in the ordinary course of their business, for which they have received and may continue to receive customary fees and commissions. In addition, in the ordinary course of their various business activities, the underwriters and their respective affiliates may make or hold a broad array of investments and actively trade debt and equity securities (or related derivative securities) and financial instruments (including bank loans) for their own account and for the accounts of their customers and may at any time hold long and short positions in such securities and instruments. Such investment and securities activities may involve our securities and instruments. The underwriters and their respective affiliates may also make investment recommendations or publish or express independent research views in respect of such securities or instruments and may at any time hold, or recommend to clients that they acquire, long or short positions in such securities and instruments.

One of our directors, B. Kristine Johnson, currently serves on the board of directors of Piper Jaffray Companies, an affiliate of Piper Jaffray & Co., one of the underwriters of this offering.

Selling restrictions

European economic area

In relation to each Member State of the European Economic Area which has implemented the Prospectus Directive (each, a Relevant Member State) an offer to the public of any shares of our common stock may not be made in that Relevant Member State, except that an offer to the public in that Relevant Member State of any shares of our common stock may be made at any time under the following exemptions under the Prospectus Directive, if they have been implemented in that Relevant Member State:

- (a) to any legal entity which is a qualified investor as defined in the Prospectus Directive;
- (b) to fewer than 100 or, if the Relevant Member State has implemented the relevant provision of the 2010 PD Amending Directive, 150, natural or legal persons (other than qualified investors as defined in the Prospectus Directive), as permitted under the Prospectus Directive, subject to obtaining the prior consent of the representatives for any such offer; or
- (c) in any other circumstances falling within Article 3(2) of the Prospectus Directive, provided that no such offer of shares of our common stock shall result in a requirement for the publication by us or any underwriter of a prospectus pursuant to Article 3 of the Prospectus Directive.

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For the purposes of this provision, the expression an offer to the public in relation to any shares of our common stock in any Relevant Member State means the communication in any form and by any means of sufficient information on the terms of the offer and any shares of our common stock to be offered so as to enable an investor to decide to purchase any shares of our common stock, as the same may be varied in that Member State by any measure implementing the Prospectus Directive in that Member State, the expression Prospectus Directive means Directive 2003/71/EC (and amendments thereto, including the 2010 PD Amending Directive, to the extent implemented in the Relevant Member State), and includes any relevant implementing measure in the Relevant Member State, and the expression 2010 PD Amending Directive means Directive 2010/73/EU.

United Kingdom

This document is only being distributed to and is only directed at (i) persons who are outside the United Kingdom or (ii) to investment professionals falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (the Order) or (iii) high net worth entities, and other persons to whom it may lawfully be communicated, falling with Article 49(2)(a) to (d) of the Order (all such persons together being referred to as relevant persons). The securities are only available to, and any invitation, offer or agreement to subscribe, purchase or otherwise acquire such securities will be engaged in only with, relevant persons. Any person who is not a relevant person should not act or rely on this document or any of its contents.

Hong Kong

The shares may not be offered or sold by means of any document other than (i) in circumstances which do not constitute an offer to the public within the meaning of the Companies Ordinance (Cap. 32, Laws of Hong Kong), or (ii) to professional investors within the meaning of the Securities and Futures Ordinance (Cap. 571, Laws of Hong Kong) and any rules made thereunder, or (iii) in other circumstances which do not result in the document being a prospectus within the meaning of the Companies Ordinance (Cap. 32, Laws of Hong Kong), and no advertisement, invitation or document relating to the shares may be issued or may be in the possession of any person for the purpose of issue (in each case whether in Hong Kong or elsewhere), which is directed at, or the contents of which are likely to be accessed or read by, the public in Hong Kong (except if permitted to do so under the laws of Hong Kong) other than with respect to shares which are or are intended to be disposed of only to persons outside Hong Kong or only to professional investors within the meaning of the Securities and Futures Ordinance (Cap. 571, Laws of Hong Kong) and any rules made thereunder.

Singapore

This prospectus supplement and the accompanying prospectus have not been registered as a prospectus with the Monetary Authority of Singapore. Accordingly, this prospectus supplement and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of the shares may not be circulated or distributed, nor may the shares be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons in Singapore other than (i) to an institutional investor under Section 274 of the Securities and Futures Act, Chapter 289 of Singapore (the SFA), (ii) to a relevant person, or any person pursuant to Section 275(1A), and in accordance with the conditions, specified in Section 275 of the SFA or (iii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA.

Where the shares are subscribed or purchased under Section 275 by a relevant person which is: (a) a corporation (which is not an accredited investor) the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is an accredited investor; or (b) a trust (where the trustee is not an accredited investor) whose sole purpose is to hold investments and each beneficiary is an accredited investor, shares, debentures and units of shares and debentures of that corporation

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or the beneficiaries' rights and interest in that trust shall not be transferable for six months after that corporation or that trust has acquired the shares under Section 275 except: (1) to an institutional investor under Section 274 of the SFA or to a relevant person, or any person pursuant to Section 275(1A), and in accordance with the conditions, specified in Section 275 of the SFA; (2) where no consideration is given for the transfer; or (3) by operation of law.

Japan

The securities have not been and will not be registered under the Financial Instruments and Exchange Law of Japan (the "Financial Instruments and Exchange Law") and the underwriter has agreed that it not offer or sell any securities, directly or indirectly, in Japan or to, or for the benefit of, any resident of Japan (which term as used herein means any person resident in Japan, including any corporation or other entity organized under the laws of Japan), or to others for re-offering or resale, directly or indirectly, in Japan or to a resident of Japan, except pursuant to an exemption from the registration requirements of, and otherwise in compliance with, the Financial Instruments and Exchange Law and any other applicable laws, regulations and ministerial guidelines of Japan.

Australia

No placement document, prospectus, product disclosure statement or other disclosure document has been lodged with the Australian Securities and Investments Commission (the "ASIC"), in relation to the offering. This prospectus supplement does not constitute a prospectus, product disclosure statement or other disclosure document under the Corporations Act 2001 (the "Corporations Act"), and does not purport to include the information required for a prospectus, product disclosure statement or other disclosure document under the Corporations Act.

Any offer in Australia of the securities may only be made to persons (the "Exempt Investors") who are sophisticated investors (within the meaning of section 708(8) of the Corporations Act), professional investors (within the meaning of section 708(11) of the Corporations Act) or otherwise pursuant to one or more exemptions contained in section 708 of the Corporations Act so that it is lawful to offer the securities without disclosure to investors under Chapter 6D of the Corporations Act.

The securities applied for by Exempt Investors in Australia must not be offered for sale in Australia in the period of 12 months after the date of allotment under the offering, except in circumstances where disclosure to investors under Chapter 6D of the Corporations Act would not be required pursuant to an exemption under section 708 of the Corporations Act or otherwise or where the offer is pursuant to a disclosure document which complies with Chapter 6D of the Corporations Act. Any person acquiring securities must observe such Australian on-sale restrictions.

This prospectus supplement contains general information only and does not take account of the investment objectives, financial situation or particular needs of any particular person. It does not contain any securities recommendations or financial product advice. Before making an investment decision, investors need to consider whether the information in this prospectus supplement is appropriate to their needs, objectives and circumstances, and, if necessary, seek expert advice on those matters.

Switzerland

The shares may not be publicly offered in Switzerland and will not be listed on the SIX Swiss Exchange (the "SIX") or on any other stock exchange or regulated trading facility in Switzerland. This document has been prepared without regard to the disclosure standards for issuance prospectuses under art. 652a or art. 1156 of the Swiss Code of Obligations or the disclosure standards for listing prospectuses under art. 27 ff. of the SIX

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Listing Rules or the listing rules of any other stock exchange or regulated trading facility in Switzerland. Neither this document nor any other offering or marketing material relating to the shares or the offering may be publicly distributed or otherwise made publicly available in Switzerland.

Neither this document nor any other offering or marketing material relating to the offering, the Company, the shares have been or will be filed with or approved by any Swiss regulatory authority. In particular, this document will not be filed with, and the offer of shares will not be supervised by, the Swiss Financial Market Supervisory Authority, and the offer of shares has not been and will not be authorized under the Swiss Federal Act on Collective Investment Schemes (CISA). The investor protection afforded to acquirers of interests in collective investment schemes under the CISA does not extend to acquirers of shares.

Dubai international financial centre

This prospectus supplement and the accompanying prospectus relate to an Exempt Offer in accordance with the Offered Securities Rules of the Dubai Financial Services Authority (the DFSA). This prospectus supplement and the accompanying prospectus are intended for distribution only to persons of a type specified in the Offered Securities Rules of the DFSA. It must not be delivered to, or relied on by, any other person. The DFSA has no responsibility for reviewing or verifying any documents in connection with Exempt Offers. The DFSA has not approved this prospectus supplement or the accompanying prospectus nor taken steps to verify the information set forth herein and has no responsibility for this prospectus supplement or the accompanying prospectus. The shares to which this prospectus supplement and the accompanying prospectus relate may be illiquid and/or subject to restrictions on their resale. Prospective purchasers of the shares offered should conduct their own due diligence on the shares. If you do not understand the contents of this prospectus supplement and the accompanying prospectus you should consult an authorized financial advisor.

Notice to prospective investors in Canada

The shares of our common stock may be sold only to purchasers purchasing, or deemed to be purchasing, as principal that are accredited investors, as defined in National Instrument 45-106 *Prospectus Exemptions* or subsection 73.3(1) of the *Securities Act* (Ontario), and are permitted clients, as defined in National Instrument 31-103 *Registration Requirements, Exemptions and Ongoing Registrant Obligations*. Any resale of the shares of our common stock must be made in accordance with an exemption from, or in a transaction not subject to, the prospectus requirements of applicable securities laws.

Securities legislation in certain provinces or territories of Canada may provide a purchaser with remedies for rescission or damages if this prospectus supplement (including any amendment thereto) contains a misrepresentation, provided that the remedies for rescission or damages are exercised by the purchaser within the time limit prescribed by the securities legislation of the purchaser's province or territory. The purchaser should refer to any applicable provisions of the securities legislation of the purchaser's province or territory for particulars of these rights or consult with a legal advisor.

Pursuant to section 3A.3 (or, in the case of securities issued or guaranteed by the government of a non-Canadian jurisdiction, section 3A.4) of National Instrument 33-105 *Underwriting Conflicts* (NI 33-105), the underwriters are not required to comply with the disclosure requirements of NI 33-105 regarding underwriter conflicts of interest in connection with this offering.

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Legal matters

Certain legal matters with respect to the validity of common stock offered by this prospectus supplement will be passed upon for us by Keating Muething & Klekamp PLL, Cincinnati, Ohio. Davis Polk & Wardwell LLP, Menlo Park, California, is representing the underwriters in this offering.

Experts

The consolidated financial statements incorporated in this prospectus supplement and the accompanying prospectus by reference from AtriCure, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2017 and the effectiveness of AtriCure, Inc.'s internal control over financial reporting as of December 31, 2017 have been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their report, which is incorporated herein by reference. Such consolidated financial statements have been so incorporated in reliance upon the reports of such firm given upon their authority as experts in accounting and auditing.

Where you can find more information

We have filed with the SEC a registration statement on Form S-3 under the Securities Act of 1933 with respect to the shares of common stock we are offering under this prospectus supplement. This prospectus supplement and the accompanying prospectus do not contain all of the information set forth in the registration statement and the exhibits to the registration statement. For further information with respect to us and the securities we are offering under this prospectus supplement, we refer you to the registration statement and the exhibits and schedules filed as a part of the registration statement. Statements contained in this prospectus supplement as to the contents of any contract or any other document referred to are not necessarily complete, and in each instance, we refer you to the copy of the contract or other document filed as an exhibit to the registration statement. Each of these statements is qualified in all respects by this reference.

We also file annual reports, quarterly reports, proxy statements, and other documents with the SEC under the Securities Exchange Act of 1934, as amended (the Exchange Act). The public may read and copy any materials we file with the SEC, including the registration statement of which this prospectus supplement and the accompany prospectus are a part, at the SEC's Public Reference Room at 100 F Street, NE, Room 2521, Washington, D.C. 20549. The public may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. Also, the SEC maintains an internet site at www.sec.gov that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC, including AtriCure. General information about AtriCure, including our annual report on Form 10-K, quarterly reports on Form 10-Q and current reports on Form 8-K, as well as any amendments and exhibits to those reports, are available free of charge through our website at www.atricure.com as soon as reasonably practicable after we file them with, or furnish them to, the SEC. Information on or available through our website is not incorporated into this prospectus supplement and the accompanying prospectus.

Important information incorporated by reference

The SEC allows incorporation by reference into this prospectus supplement and the accompanying prospectus of information that we file with the SEC. This permits us to disclose important information to you by referencing these filed documents. Any information referenced this way is considered part of this prospectus supplement and the accompanying prospectus, and any information filed by us with the SEC and incorporated herein by

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reference subsequent to the date of this prospectus supplement and the accompanying prospectus will automatically be deemed to update and supersede this information. We incorporate by reference the following documents which have been filed with the SEC (except the information contained in such documents to the extent furnished and not filed):

Our Annual Report on Form 10 K for our fiscal year ended December 31, 2017 as filed with the SEC on February 28, 2018 (including the portions of our Definitive Proxy Statement on Schedule 14A, filed with the SEC on April 10, 2018, incorporated reference therein);

Our Quarterly Reports on Form 10 Q for our fiscal quarters ended March 31, 2018, and June 30, 2018, as filed with the SEC on April 27, 2018 and August 2, 2018, respectively;

Our Current Reports on Form 8 K filed on February 16, 2018, February 20, 2018, February 26, 2018, March 2, 2018, and May 23, 2018; and

the description of our Common Stock contained in our Registration Statement File No. 000-51470 on Form 8-A as a filed with the SEC on August 1, 2005, including any amendment or report filed for the purpose of updating such description.

All documents filed by us under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act from the date of this prospectus supplement and the accompanying prospectus until the sale of all securities registered hereunder or the termination of the registration statement shall be deemed to be incorporated in this prospectus supplement and the accompanying prospectus by reference (except the information contained in such documents to the extent furnished and not filed). Any statement contained in this prospectus supplement and the accompanying prospectus or in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this prospectus supplement and the accompanying prospectus to the extent that a statement contained in any subsequently filed document which is or is deemed to be incorporated by reference herein modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this prospectus supplement and the accompanying prospectus.

You may request a copy of these filings, at no cost, by writing or telephoning us at the following address or telephone number:

AtriCure, Inc.

7555 Innovation Way

Mason, Ohio 45040

Attention: Chief Financial Officer

Phone: (513) 755-4100

Exhibits to the filings will not be sent, unless those exhibits have been specifically incorporated by reference in this prospectus supplement and the accompanying prospectus.

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Prospectus

\$150,000,000

Common Stock, Preferred Stock, Debt Securities, Warrants,

Depository Shares and Units

and

5,659,984 Shares of Common Stock

By this prospectus and an accompanying prospectus supplement, we may from time to time offer and sell, in one or more offerings, up to an aggregate offering amount of \$150,000,000, in any combination of common stock, preferred stock, debt securities, warrants, depository shares and units. Also, selling securityholders identified in this prospectus may, from time to time, offer and sell up to an additional 5,659,984 shares of common stock. See **Selling Securityholders**.

We will provide you with more specific terms of these securities in one or more supplements to this prospectus. You should read this prospectus and the applicable prospectus supplement carefully before you invest.

We or any selling securityholders may offer these securities from time to time in amounts, at prices and on other terms to be determined at the time of offering. We or any selling securityholders may offer and sell these securities to or through underwriters, dealers or agents, or directly to investors, on a continuous or delayed basis. The supplements to this prospectus will provide the specific terms of the plan of distribution. The price to the public of such securities and the net proceeds we expect to receive from such sale will also be set forth in a prospectus supplement.

Our common stock is listed on the NASDAQ Global Market under the symbol **ATRC**.

Investing in our securities involves risks. See Risk Factors beginning on page 5 of this prospectus and the information included and incorporated by reference in this prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the accuracy or adequacy of this prospectus. Any representation to the contrary is a criminal offense.

The date of this prospectus is June 24, 2016

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement filed with the Securities and Exchange Commission (the "SEC") using a shelf registration process. Under this shelf process, we or any selling securityholders may sell the securities described in this prospectus in one or more offerings. This prospectus provides you with a general description of the securities which may be offered. Each time securities are offered for sale, we will provide a prospectus supplement that contains specific information about the terms of that offering. The prospectus supplement may also add or update information contained in this prospectus. You should read both this prospectus and any prospectus supplement together with additional information described below under "Where You Can Find More Information" and "Information Incorporated by Reference."

The registration statement that contains this prospectus (including the exhibits thereto) contains additional important information about us and the selling securityholders and the securities we or any selling securityholders may offer under this prospectus. Specifically, we have filed certain legal documents that establish the terms of the securities offered by this prospectus as exhibits to the Registration Statement. We will file certain other legal documents that establish the terms of the securities offered by this prospectus as exhibits to reports we file with the SEC. You may obtain copies of that registration statement and the other reports and documents referenced herein as described below under the heading "Where You Can Find More Information."

You should rely only on the information contained or incorporated by reference in this prospectus and in any prospectus supplement. We have not authorized any other person to provide you with different information. If anyone

provides you with different or inconsistent information, you should not rely on it. We are not making offers to sell or solicitations to buy the securities in any jurisdiction in which an offer or solicitation is not authorized or in which the person making that offer or solicitation is not qualified to do so or to anyone to whom it is unlawful to make an offer or solicitation. You should not assume that the information in this prospectus or any prospectus supplement, as well as the information we file or previously filed with the SEC that we incorporate by reference in this prospectus or any prospectus supplement, is accurate as of any date other than its respective date. Our business, financial condition, results of operations and prospects may have changed since those dates.

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In this prospectus, unless the context otherwise requires, references to we, us, our or AtriCure refer to AtriCure, Inc. and its subsidiaries.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the SEC. Our SEC filings are available to the public over the Internet at the SEC's website at <http://www.sec.gov>. You may also read and copy any document we file at the SEC's Public Reference Room at 100 F Street, NE, Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the operation of the Public Reference Room. Our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, and Current Reports on Form 8-K, including any amendments to those reports, and other information that we file with or furnish to the SEC pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended (the Exchange Act) can also be accessed free of charge through the Internet.

We have filed with the SEC a registration statement under the Securities Act of 1933 relating to the offering of these securities. The Registration Statement, including the attached exhibits, contains additional relevant information about us, and the selling securityholders and the securities. This prospectus does not contain all of the information set forth in the registration statement. You can obtain a copy of the Registration Statement from the SEC as described above. The Registration Statement and the documents referred to below under Information Incorporated by Reference and our other SEC filings are also available free of charge by accessing the Investors section of our website at <http://www.atricure.com>. We have not incorporated by reference into this prospectus the information on our website, and you should not consider it to be a part of this prospectus.

INFORMATION INCORPORATED BY REFERENCE

The SEC allows us to incorporate by reference into this prospectus certain information we file with it, which means that we can disclose important information by referring you to those documents. The information incorporated by reference is considered to be a part of this prospectus, and information that we file later with the SEC will automatically update and supersede information contained in this prospectus and any accompanying prospectus supplement. We incorporate by reference the documents listed below that we have previously filed with the SEC:

our Annual Report on Form 10-K for the year ended December 31, 2015;

our Quarterly Report on Form 10-Q for the quarter ended March 31, 2016;

our Current Reports on Form 8-K filed on February 8, 2016, April 28, 2016 and May 27, 2016 (excluding any information furnished in such reports under Item 2.02, Item 7.01 or Item 9.01); and

the description of our common stock contained in our Registration Statement on Form 8-A as filed with the SEC on or about August 1, 2005.

We also incorporate by reference into this prospectus additional documents that we may file with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act prior to the completion or termination of the offering, including all such documents we may file with the SEC after the date of the initial registration statement and prior to the

effectiveness of the registration statement. We do not and will not, however, incorporate by reference in this prospectus any documents or portions thereof that are not deemed filed with the SEC, including any information furnished pursuant to Item 2.02 or Item 7.01 of our Current Reports on Form 8-K, unless, and except to the extent, specified in such Current Reports. Any statements contained in a previously filed document incorporated by reference into this prospectus is deemed to be modified or superseded for purposes of this prospectus to the extent that a statement contained in this prospectus, or in a subsequently filed document also incorporated by reference herein, modifies or supersedes that statement.

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This prospectus may contain information that updates, modifies or is contrary to information in one or more of the documents incorporated by reference in this prospectus. You should rely only on the information incorporated by reference or provided in this prospectus. We have not authorized anyone else to provide you with different information. You should not assume that the information in this prospectus is accurate as of any date other than the date of this prospectus or the date of the documents incorporated by reference in this prospectus.

We will provide to each person, including any beneficial owner, to whom this prospectus is delivered, upon written or oral request, at no cost to the requester, a copy of any and all of the information that is incorporated by reference in this prospectus.

Requests for such documents should be directed to:

Investor Relations

AtriCure, Inc.

7555 Innovation Way

Mason, Ohio 45040

Telephone: (513) 755-4100

You may also access the documents incorporated by reference in this prospectus free of charge through the Investors section of our website at <http://www.atricure.com>. Except for the specific incorporated documents listed above, no information available on or through our website shall be deemed to be incorporated in this prospectus or the registration statement of which it forms a part.

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RISK FACTORS

Investing in our securities involves risk. Please see the risk factors set forth in Part I, Item 1A in our Annual Report on Form 10-K for our most recent fiscal year, as updated by our quarterly reports on Form 10-Q and other filings we make with the SEC, as incorporated by reference in this prospectus. Additional risk factors may be included in a prospectus supplement relating to a particular series or offering of securities. Before making an investment decision, you should carefully consider these risks as well as other information we include or incorporate by reference in this prospectus. The risks and uncertainties we have described are not the only ones we face. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also affect our business operations. These risks could materially affect our business, results of operations or financial condition and cause the value of our securities to decline.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus (including the information incorporated by reference) contains certain statements that may be deemed to be forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Exchange Act. Forward-looking statements anticipate results based on our estimates, assumptions and plans that are subject to uncertainty. The Private Securities Litigation Reform Act of 1995 provides a safe harbor for forward-looking statements. All statements in this prospectus and any accompanying prospectus supplement not dealing with historical results or current facts are forward-looking and are based on estimates, assumptions and projections. Statements which include the words believes, seeks, expects, may, should, intends, likely, ta anticipates, estimates or the negative version of those words and similar statements of a future or forward-looking nature identify forward-looking statements.

Factors that could cause actual results to differ from those in the forward-looking statements may accompany the statements themselves. In addition, generally applicable factors that could cause actual results or outcomes to differ from those expressed in the forward-looking statements are and will be discussed in our reports on Forms 10-K, 10-Q and 8-K, incorporated by reference in this prospectus.

All forward-looking statements address matters that involve risks and uncertainties. Accordingly, there are or will be important factors that could cause actual results to differ materially from those indicated in these statements. These risks and uncertainties include the rate and degree of market acceptance of AtriCure's products, AtriCure's ability to develop and market new and enhanced products, the timing of and ability to obtain and maintain regulatory clearances and approvals for its products, the timing of and ability to obtain reimbursement of procedures utilizing AtriCure's products, AtriCure's ability to consummate acquisitions or, if consummated, to successfully integrate acquired businesses into AtriCure's operations, AtriCure's ability to recognize the benefits of acquisitions, including potential synergies and cost savings, failure of an acquisition or acquired company to achieve its plans and objectives generally, risk that proposed or consummated acquisitions may disrupt operations or pose difficulties in employee retention or otherwise affect financial or operating results, AtriCure's ability to raise the capital that may be required to accomplish the foregoing, competition from existing and new products and procedures or AtriCure's ability to effectively react to other risks and uncertainties described from time to time in AtriCure's SEC filings, such as fluctuation of quarterly financial results, reliance on third party manufacturers and suppliers, litigation or other proceedings, government regulation and stock price volatility. We do not undertake any obligation to publicly update or review any forward-looking statement.

Table of Contents**ATRICURE, INC.**

AtriCure, Inc. is a medical device company providing innovative atrial fibrillation (Afib) solutions designed to produce superior outcomes that reduce the economic and social burden of atrial fibrillation. AtriCure's Synergy Ablation System is the first and only surgical device approved for the treatment of persistent and longstanding persistent forms of Afib in patients undergoing certain open concomitant procedures. AtriCure's AtriClip left atrial appendage management (LAAM) exclusion device is the most widely sold device worldwide that is indicated for the occlusion of the left atrial appendage. The company believes cardiothoracic surgeons are adopting its ablation and LAAM devices for the treatment of Afib and reduction of Afib related complications such as stroke. Afib affects more than 33 million people worldwide.

We were incorporated in the State of Delaware as AtriCure, Inc. on October 31, 2000. Our principal executive offices are located at 7555 Innovation Way, Mason, Ohio 45040. Our telephone number is (513) 755-4100. SEC filings, news releases, our Code of Ethics applicable to directors, officers and employees and other information may be accessed free of charge through the Investors section of our website at <http://www.atricure.com>. Other than the information specifically incorporated by reference in this prospectus, information on our website is not part of this prospectus.

USE OF PROCEEDS

Unless otherwise indicated in an accompanying prospectus supplement, we expect to use the net proceeds from the sale of any securities offered by us for general corporate purposes, which may include the repayment of outstanding debt. Until the net proceeds are used for these purposes, we may deposit them in interest-bearing accounts or invest them in marketable securities. The specific allocations, if any, of the proceeds from the sale of any of the securities will be described in the prospectus supplement relating to the offering of the securities.

Unless otherwise indicated in a prospectus supplement, we will not receive any proceeds from the sale of securities by any selling securityholder.

RATIO OF EARNINGS TO FIXED CHARGES

The following table sets forth our ratio of earnings to fixed charges for the periods indicated:

	Three Months ended			Fiscal Years		
	March 31,			2014	2013	2012
	2016	2015	2014	2013	2012	2011
Ratio of earnings to fixed charges	N/A	N/A	N/A	N/A	N/A	N/A

Ratio of earnings to fixed charges is not applicable as the Company is deficient in earnings by \$9,338, \$26,379, \$15,430, \$10,660, \$6,485, and \$4,442 for the three months ended March 31, 2016 and fiscal years ending 2015, 2014, 2013, 2012, and 2011, respectively.

DESCRIPTION OF THE SECURITIES WE MAY OFFER

We may issue, in one or more offerings, any combination of common stock, preferred stock, debt securities, warrants, depositary shares and units.

This prospectus contains a summary of the general terms of the various securities that we may offer. The prospectus supplement relating to any particular securities offered will describe the specific terms of the

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securities. The summary in this prospectus and in any prospectus supplement does not describe every aspect of the securities and is subject to and qualified in its entirety by reference to all applicable provisions of the documents relating to the securities offered. These documents are or will be filed as exhibits to or incorporated by reference in the registration statement.

In addition, the prospectus supplement will set forth the terms of the offering, the initial public offering price and net proceeds to us. Where applicable, the prospectus supplement will also describe any material U.S. federal income tax considerations relating to the securities offered and indicate whether the securities offered are or will be listed on any securities exchange.

DESCRIPTION OF COMMON STOCK

This section summarizes the general terms of our common stock that we may offer. The prospectus supplement relating to the common stock offered will set forth the number of shares offered, the initial offering price and recent market prices, dividend information and any other relevant information. The summary in this section and in the prospectus supplement does not describe every aspect of the common stock and is subject to and qualified in its entirety by reference to all the provisions of our Amended and Restated Certificate of Incorporation and Third Amended and Restated Bylaws and to the provisions of the Delaware General Corporation Law.

The following briefly summarizes the material terms of the common stock that we may offer, other than pricing and related terms which will be disclosed in a prospectus supplement. The total number of authorized shares of common stock is 90,000,000, par value \$0.001 per share. Holders of common stock are entitled to one vote for each share held of record on all matters submitted to a vote of shareholders. Shareholders do not have the right to cumulate their votes in the election of directors. Our board of directors is authorized to issue the shares of common stock that are authorized but not yet issued without further shareholder approval.

Holders of our common stock are entitled to receive dividends when and if declared by our board of directors out of funds legally available therefor, subject to any contractual restrictions on the payment of dividends and to any restrictions on the payment of dividends imposed by the terms of any outstanding preferred shares or debt securities.

Upon our dissolution or liquidation or the sale of all or substantially all of our assets, after payment in full of all amounts required to be paid to creditors and to the holders of preferred shares having liquidation preferences, if any, the holders of our common stock will be entitled to receive pro rata our remaining assets available for distribution.

As of June 10, 2016, we had 33,123,362 shares of common stock outstanding. Shares of common stock carry no preemptive or conversion or subscription rights and are not subject to redemption or sinking fund provisions. All outstanding shares of common stock are, and any shares of common stock issued upon conversion of any convertible securities or exercise of employee stock options will be, fully paid and non-assessable.

Our common stock is listed on the NASDAQ Global Market and trades under the symbol ATRC. Our registrar and transfer agent is American Stock Transfer & Trust Company.

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

Provisions of our Amended and Restated Certificate of Incorporation and Third Amended and Restated Bylaws may have the effect of making it more difficult for a third party to acquire, or of discouraging a third party from attempting to acquire, control of us. Because our shareholders do not have cumulative voting rights,

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our shareholders representing a majority of the shares of common stock outstanding will be able to elect all of our directors. Our Amended and Restated Certificate of Incorporation and Third Amended and Restated Bylaws provide that all shareholder action must be effected at a duly called meeting of shareholders and not by a consent in writing, and that only our board of directors, chairman of the board, chief executive officer or president (in the absence of a chief executive officer) may call a special meeting of shareholders. Our Amended and Restated Certificate of Incorporation requires a 66 2/3% shareholder vote for the amendment, repeal or modification of certain provisions of our Amended and Restated Certificate of Incorporation and Third Amended and Restated Bylaws relating to the absence of cumulative voting, limitations of liability of our directors, the requirement that shareholder actions be effected at a duly-called meeting and the designated parties entitled to call a special meeting of the shareholders.

The combination of the lack of cumulative voting and the 66 2/3% shareholder voting requirement will make it more difficult for our existing shareholders to replace our board of directors as well as for another party to obtain control of us by replacing our board of directors. Since our board of directors has the power to retain and discharge our officers, these provisions could also make it more difficult for existing shareholders or another party to effect a change in management. In addition, the authorization of undesignated preferred stock makes it possible for our board of directors to issue preferred stock with voting or other rights or preferences that could impede the success of any attempt to change our control.

These provisions may have the effect of deterring hostile takeovers or delaying changes in our control or management. These provisions are intended to enhance the likelihood of continued stability in the composition of our board of directors and in the policies they implement, and to discourage certain types of transactions that may involve an actual or threatened change of our control. These provisions are designed to reduce our vulnerability to an unsolicited acquisition proposal. The provisions also are intended to discourage certain tactics that may be used in proxy fights. However, such provisions could have the effect of discouraging others from making tender offers for our shares and, as a consequence, they also may inhibit fluctuations in the market price of our shares that could result from actual or rumored takeover attempts. Such provisions may also have the effect of preventing changes in our management.

Delaware Anti-Takeover Statute

We are subject to Section 203 of the Delaware General Corporation Law. This law prohibits a publicly held Delaware corporation from engaging in any business combination with any interested shareholder for a period of three years following the date that the shareholder became an interested shareholder unless:

prior to the date of the transaction, the board of directors of the corporation approved either the business combination or the transaction that resulted in the shareholder becoming an interested shareholder;

upon consummation of the transaction which resulted in the shareholder becoming an interested shareholder, the interested shareholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced, excluding for purposes of determining the number of shares outstanding those shares owned by persons who are directors or officers or by employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or

on or subsequent to the date of the transaction, the business combination is approved by the board of directors and authorized at an annual or special meeting of shareholders, and not by written consent, by the affirmative vote of at least two-thirds of the outstanding voting stock which is not owned by the interested shareholder.

Section 203 defines "business combination" to include:

any merger or consolidation involving the corporation and the interested shareholder;

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any sale, transfer, pledge or other disposition of 10% or more of our assets involving the interested shareholder;

in general, any transaction that results in the issuance or transfer by us of any of our stock to the interested shareholder;

any transaction involving the corporation that has the effect of increasing the proportionate share of the stock or any class or series of the corporation beneficially owned by the interested shareholder; or

the receipt by the interested shareholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits provided by or through the corporation.

In general, Section 203 defines an interested shareholder as an entity or person beneficially owning 15% or more of the outstanding voting stock of the corporation and any entity or person affiliated with or controlling or controlled by the entity or person.

Under specific circumstances, Section 203 makes it more difficult for an interested stockholder to effect various business combinations with a corporation for a three-year period, although the stockholders may, be adopting an amendment to the corporation's certificate of incorporation or bylaws, elect not to be governed by this section, effective 12 months after adoption.

Our Amended and Restated Certificate of Incorporation and Third Amended and Restated Bylaws do not exclude us from the restrictions of Section 203. We anticipate that the provisions of Section 203 might encourage companies interested in acquiring us to negotiate in advance with our board of directors since the shareholder approval requirement would be avoided if a majority of the directors then in office approve either the business combination or the transaction that resulted in the shareholder becoming an interested shareholder.

DESCRIPTION OF PREFERRED STOCK

The following briefly summarizes the material terms of the preferred stock that we may offer, other than pricing and related terms which will be disclosed in a prospectus supplement. You should read the particular terms of any series of preferred stock that we offer, which we will describe in more detail in any prospectus supplement relating to such series. You should also read the more detailed provisions of our Amended and Restated Certificate of Incorporation and the statement with respect to shares relating to each particular series of preferred stock for provisions that may be important to you. The statement with respect to shares relating to each particular series of preferred stock offered by the accompanying prospectus supplement and this prospectus will be filed as an exhibit to a document incorporated by reference in the registration statement. The prospectus supplement will also state whether any of the terms summarized below do not apply to the series of preferred stock being offered.

General

Our board of directors is authorized to issue up to 10,000,000 shares of preferred stock, par value \$0.001 per share. As of the date of this prospectus, we have not issued any shares of preferred stock. Our board of directors can issue shares of preferred stock in one or more series and can specify the following terms for each series:

the number of shares;

the designation, powers, preferences and rights of the shares; and

the qualifications, limitations or restrictions, except as otherwise stated in our Amended and Restated Certificate of Incorporation.

Before issuing any series of preferred stock, our board of directors will adopt resolutions creating and designating the series as a series of preferred stock, and the resolutions will be filed in a statement with respect to shares as an amendment to our Amended and Restated Certificate of Incorporation.

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The rights of holders of the preferred stock offered may be adversely affected by the rights of holders of any shares of preferred stock that may be issued in the future. Our board of directors may cause shares of preferred stock to be issued in public or private transactions for any proper corporate purpose. Examples include issuances to obtain additional financing in connection with acquisitions or otherwise, and issuances to our officers, directors and employees and its subsidiaries pursuant to benefit plans or otherwise. The preferred stock could have the effect of acting as an anti-takeover device to prevent a change in control of us.

Unless the particular prospectus supplement states otherwise, holders of each series of preferred stock will not have any preemptive or subscription rights to acquire more of our stock.

The transfer agent, registrar, dividend disbursing agent and redemption agent for shares of each series of preferred stock will be named in the prospectus supplement relating to such series.

Rank

Unless otherwise specified in the prospectus supplement relating to the shares of any series of preferred stock, the shares will rank on an equal basis with each other series of preferred stock and prior to the common stock as to dividends and distributions of assets.

Dividends

Unless the particular prospectus supplement states otherwise, holders of each series of preferred stock will be entitled to receive cash dividends, when, as and if declared by our board of directors out of funds legally available for dividends. The rates and dates of payment of dividends will be set forth in the prospectus supplement relating to each series of preferred stock. Dividends will be payable to holders of record of preferred stock as they appear on our books. Dividends on any series of preferred stock may be cumulative or noncumulative.

We may not declare, pay or set apart for payment dividends on the preferred stock unless full dividends on any other series of preferred stock that ranks on an equal or senior basis have been paid or sufficient funds have been set apart for payment for:

all prior dividend periods of the other series of preferred stock that pay dividends on a cumulative basis; or

the immediately preceding dividend period of the other series of preferred stock that pay dividends on a noncumulative basis.

Partial dividends declared on shares of preferred stock and any other series of preferred stock ranking on an equal basis as to dividends will be declared pro rata. A pro rata declaration means that the ratio of dividends declared per share to accrued dividends per share will be the same for all such series of preferred stock.

Similarly, we may not declare, pay or set apart for payment non-stock dividends or make other payments on our common stock or any other stock ranking junior to the preferred stock unless full dividends on all series of preferred stock have been paid or set apart for payment for:

all prior dividend periods if the preferred stock pays dividends on a cumulative basis; or

the immediately preceding dividend period if the preferred stock pays dividends on a noncumulative basis.

Conversion and Exchange

The prospectus supplement for any series of preferred stock will state the terms, if any, on which shares of that series are convertible into or exchangeable for shares of our common stock.

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Redemption

If so specified in the applicable prospectus supplement, a series of preferred stock may be redeemable at any time, in whole or in part, at our option or at the option of the holders, or may be mandatorily redeemed.

Any partial redemptions of preferred stock will be made in a way that our board of directors decides is equitable.

Unless we default in the payment of the redemption price, dividends will cease to accrue after the redemption date on shares of preferred stock called for redemption and all rights of holders of such shares will terminate except for the right to receive the redemption price.

Liquidation Preference

Upon our voluntary or involuntary liquidation, dissolution or winding up, holders of each series of preferred stock will be entitled to receive distributions upon liquidation in the amount set forth in the prospectus supplement relating to such series of preferred stock, plus an amount equal to any accrued and unpaid dividends. Such distributions will be made before any distribution is made on any securities ranking junior to the preferred stock with respect to liquidation, including common stock.

If the liquidation amounts payable relating to the preferred stock of any series and any other securities ranking on a parity regarding liquidation rights are not paid in full, the holders of the preferred stock of such series and such other securities will share in any such distribution of our available assets on a ratable basis in proportion to the full liquidation preferences. Holders of such series of preferred stock will not be entitled to any other amounts from us after they have received their full liquidation preference.

Voting Rights

If we issue voting preferred stock, holders of preferred stock will be entitled to one vote per share on each matter submitted to our shareholders. If we issue non-voting preferred stock, holders of preferred stock will have no voting rights, except as required by applicable law. The prospectus supplement will state the voting rights, if any, applicable to any particular series of preferred stock.

DESCRIPTION OF DEBT SECURITIES

General

The debt securities will be governed by documents called indentures. An indenture is a contract between AtriCure and the trustee named in the applicable prospectus supplement, which acts as trustee for the debt securities. There may be more than one trustee under each indenture for different series of debt securities. The trustee has two main roles. First, the trustee can enforce your rights against AtriCure if AtriCure defaults. There are some limitations on the extent to which the trustee acts on your behalf, described under Remedies If An Event of Default Occurs. Second, the trustee may perform administrative duties for AtriCure, such as sending you interest payments, transferring your debt securities to a new buyer if you sell, and sending you notices.

The debt securities will be unsecured general obligations of AtriCure and may include:

senior debt securities, to be issued under the senior indenture; and

subordinated debt securities, to be issued under the subordinated indenture.

The prospectus supplement relating to any particular debt securities offered will indicate whether the debt securities are senior debt securities or subordinated debt securities and will describe the specific terms of the debt

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securities. The summary in this section and in any prospectus supplement does not describe every aspect of the senior or subordinated indenture or the debt securities, and is subject to and qualified in its entirety by reference to all the provisions of the applicable indenture and the debt securities. The forms of the senior indenture and subordinated indenture and the forms of the debt securities are or will be filed as exhibits to or incorporated by reference in the registration statement. See [Where You Can Find More Information](#) for information on how to obtain a copy.

This section summarizes the general terms of the senior and subordinated debt securities that we may offer. When we refer to the indenture, we mean the senior indenture and the subordinated indenture collectively, unless we indicate otherwise. When we refer to the trustee, we mean the senior trustee and the subordinated trustee collectively, unless we indicate otherwise. When we refer to the debt securities, we mean the senior and subordinated debt securities, unless we indicate otherwise.

The prospectus supplement relating to any series of debt securities will describe the following specific financial, legal and other terms particular to such series of debt securities:

the title of the debt securities;

any limit on the aggregate principal amount of the debt securities;

the date or dates on which the debt securities will mature;

the rate or rates (which may be fixed or variable) at which the debt securities will bear interest, if any, and the date or dates from which the interest will accrue;

the dates on which interest on the debt securities will be payable and the regular record dates for those interest payment dates;

the place or places where the principal and premium, if any, and interest, if any, shall be payable, where the debt securities may be surrendered for transfer or exchange, and where notices and demands may be served;

the date, if any, after which and the price or prices at which the debt securities may, in accordance with any option or mandatory redemption provisions, be redeemed and the other detailed terms and provisions of any such optional or mandatory redemption provision;

any mandatory or optional sinking funds or analogous provisions or provisions for redemption at the holder's option;

the denomination in which the debt securities will be issuable, if other than denominations of \$1,000 and any integral multiple thereof;

if other than the principal amount thereof, the portion of the principal amount of the debt securities which will be payable upon the declaration of acceleration of the maturity of those debt securities;

any addition to, or modification or deletion of, any events of default or covenants with respect to the securities;

any provision relating to the defeasance of our obligations in connection with the debt securities;

any provision regarding exchangeability or conversion of the debt securities into our common stock or other securities;

whether any debt securities will be issued in the form of a global security, and, if different than described below under Book-Entry Securities, any circumstances under which a global security may be exchanged for debt securities registered in the names of persons other than the depository for the global security or its nominee;

the subordination provisions applicable to the subordinated debt securities; and

any other material terms of the debt securities.

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The terms of any series of debt securities may vary from the terms described here. Thus, this summary also is subject to and qualified by reference to the description of the particular terms of your debt securities to be described in the prospectus supplement. The prospectus supplement relating to the debt securities will be attached to the front of this prospectus.

The indenture and its associated documents will contain the full legal text of the matters described in this section. The indenture and the debt securities will be governed by New York law.

Events of Default

You will have special rights if an event of default occurs, with respect to any series of debt securities, and is not cured, as described later in this subsection. Under the indenture, the term event of default will mean any of the following:

AtriCure does not pay interest on a debt security within 30 days of its due date;

AtriCure does not pay the principal or any premium on a debt security on its due date;

AtriCure remains in breach of any covenant or warranty described in the indenture for 90 days after AtriCure receives a notice stating it is in breach, which notice must be sent by either the trustee or direct holders of at least 25% of the principal amount of outstanding debt securities;

AtriCure fails to pay an amount of debt as defined in any mortgage, indenture, security agreement or other instrument totaling more than \$25,000,000 in principal amount, AtriCure's obligation to repay is accelerated by its lenders, and this payment obligation remains accelerated for 30 days after AtriCure receives notice of default as described in the previous paragraph;

AtriCure becomes subject to one or more final, non-appealable judgments, orders or decrees requiring payments of more than \$25,000,000 and such judgments, orders or decrees remain unsatisfied for 60 days during which a stay of enforcement has not been in effect after AtriCure receives notice as described two paragraphs above; or

certain events of bankruptcy, insolvency or reorganization of AtriCure.

Remedies if an Event of Default Occurs

If an event of default has occurred and has not been cured (if a cure period is provided for), the trustee or the direct holders of 25% in principal amount of the outstanding debt securities may declare the entire principal amount of all the debt securities of that series to be due and immediately payable. This is called a declaration of acceleration of maturity.

Except in cases of default, whereby a trustee has some special duties, a trustee will not be required to take any action under the indenture at the request of any direct holders unless the direct holders offer the trustee reasonable protection

from costs, expenses and liability (called an indemnity). If reasonable indemnity is provided, the direct holders of a majority in principal amount of the outstanding debt securities of the relevant series may direct the time, method and place of conducting any lawsuit or other formal legal action seeking any remedy available to the trustee. These majority direct holders may also direct the trustee in performing any other action under the indenture.

In general, before you bypass the trustee and bring your own lawsuit or other formal legal action or take other steps to enforce your rights or protect your interests relating to the debt securities, the following must occur:

you must give the trustee written notice that an event of default has occurred and remains uncured;

the direct holders of at least 25% in principal amount of all outstanding debt securities of the relevant series must make a written request that the trustee take action in its own name as trustee because of the

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default, and must offer reasonable indemnity to the trustee against the costs, expenses and other liabilities of taking that action;

the trustee must have not taken action for 60 days after receipt of the above notice and offer of indemnity; and

the trustee must not have received from direct holders of a majority in principal amount of the outstanding debt securities of that series a direction inconsistent with the written notice during the 60 day period after receipt of the above notice.

However, you are entitled at any time to bring a lawsuit for the payment of money due on your debt security on or after its due date.

Modification

There are three types of changes we can make to the indentures and the debt securities.

Changes Requiring Your Approval

First, there are changes that cannot be made to the indentures or your debt securities without your specific approval. The following is a list of those types of changes:

change the payment due date;

reduce any amounts due on a debt security;

reduce the amount of principal payable upon acceleration of the maturity of a debt security following a default;

impair your right to sue for payment;

reduce the percentage in principal amount of debt securities, the consent of whose holders is required to modify or amend the indenture;

reduce the percentage in principal amount of debt securities, the consent of whose holders is required to waive compliance with certain provisions of the indenture or to waive certain defaults; and

modify any other aspect of the provisions dealing with modification and waiver of the indenture.

Changes Requiring a Majority Vote

The second type of change to the indentures and the debt securities is the kind that requires consent of the holders of a majority in principal amount of the outstanding debt securities of the particular series affected. With a majority vote, the holders may waive past defaults, provided that such defaults are not of the type described previously under Changes Requiring Your Approval.

Changes Not Requiring Approval

The third type of change does not require any vote by direct holders of debt securities. This type is limited to clarifications and certain other changes that would not adversely affect holders of the debt securities.

Consolidation, Merger and Sale of Assets

AtriCure may consolidate or merge with or into another entity, and AtriCure may sell or lease substantially all of AtriCure's assets to another corporation if the following conditions, among others, are met:

where AtriCure merges out of existence or sells or leases substantially all its assets, the other entity must be a corporation, partnership or trust organized under the laws of a state or the District of Columbia or under federal law, and it must agree to be legally responsible for the debt securities; and

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the merger, sale of assets or other transaction must not cause a default or an event of default on the debt securities.

Form, Exchange, Registration and Transfer

Generally, we will issue debt securities only in registered global form. See **Book-Entry Securities** below. However, if specified in the prospectus supplement, we may issue certificated securities in definitive form.

You may have your debt securities broken into more debt securities of smaller denominations or combined into fewer debt securities of larger denominations, as long as the total principal amount is not changed. This is called an exchange.

You may exchange or transfer debt securities at the office of the trustee. The trustee acts as our agent for registering debt securities in the names of holders and transferring debt securities. We may appoint another entity or perform this role itself. The entity performing the role of maintaining the list of registered direct holders is called the security registrar. It will also perform transfers. You will not be required to pay a service charge to transfer or exchange debt securities, but you may be required to pay for any tax or other governmental charge associated with the exchange or transfer. The transfer or exchange will only be made if the security registrar is satisfied with your proof of ownership.

If the debt securities are redeemable and AtriCure redeems less than all of the debt securities of a particular series, AtriCure may block the transfer or exchange of those debt securities during the period beginning 15 days before the day AtriCure mails the notice of redemption and ending on the day of that mailing, in order to freeze the list of holders to prepare the mailing. We may also refuse to register transfers or exchanges of debt securities selected for redemption, except that we will continue to permit transfers and exchanges of the unredeemed portion of any debt security being partially redeemed.

Book-Entry Securities

The debt securities will be represented by one or more global securities. Unless otherwise indicated in the prospectus supplement, the global security representing the debt securities will be deposited with, or on behalf of, The Depository Trust Company (DTC), New York, New York, or other successor depository we appoint, and registered in the name of the depository or its nominee. The debt securities will not be issued in definitive form unless otherwise provided in the prospectus supplement.

DTC will act as securities depository for the securities. The debt securities will be issued as fully registered securities registered in the name of Cede & Co. (DTC's nominee).

DTC has informed us as follows:

DTC is a limited-purpose trust company organized under the New York Banking Law, a banking organization within the meaning of the New York Banking Law, a member of the Federal Reserve System, a clearing corporation within the meaning of the New York Uniform Commercial Code, and a clearing agency registered pursuant to the provisions of Section 17A of the Exchange Act.

DTC holds securities that its participants deposit with DTC and facilitates the settlement among participants of securities transactions, such as transfers and pledges, in deposited securities through electronic

computerized book-entry changes in participants' accounts, thereby eliminating the need for physical movement of securities certificates.

Direct participants include securities brokers and dealers, trust companies, clearing corporations, and certain other organizations.

DTC is owned by a number of its direct participants and by the New York Stock Exchange, Inc., the American Stock Exchange, Inc. and the Financial Industry Regulatory Authority.

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Access to the DTC system is also available to indirect participants such as securities brokers and dealers, banks and trust companies that clear through or maintain a custodial relationship with a direct participant, either directly or indirectly.

The rules applicable to DTC and its direct and indirect participants are on file with the SEC. We have provided the following descriptions of the operations and procedures of DTC solely as a matter of convenience. These operations and procedures are solely within the control of DTC and are subject to change by them from time to time. Neither we, any underwriter nor the trustee take any responsibility for these operations or procedures, and you are urged to contact DTC or its participants directly to discuss these matters.

We expect that under procedures established by DTC:

Upon deposit of the global securities with DTC or its custodian, DTC will credit on its internal system the accounts of direct participants designated by the underwriters with portions of the principal amounts of the global securities; and

Ownership of the debt securities will be shown on, and the transfer of ownership of the debt securities will be effected only through, records maintained by DTC or its nominee, with respect to interests of direct participants, and the records of direct and indirect participants, with respect to interests of persons other than participants.

The laws of some jurisdictions require that purchasers of securities take physical delivery of those securities in the form of a certificate. For that reason, it may not be possible to transfer interests in a global security to those persons. In addition, because DTC can act only on behalf of its participants, who in turn act on behalf of persons who hold interests through participants, the ability of a person having an interest in a global security to pledge or transfer that interest to persons or entities that do not participate in DTC's system, or otherwise to take actions in respect of that interest, may be affected by the lack of a physical definitive security in respect of that interest.

So long as DTC or its nominee is the registered owner of a global security, DTC or that nominee will be considered the sole owner or holder of the debt securities represented by that global security for all purposes under the mortgage indenture and under the debt securities. Except as described below, owners of beneficial interests in a global security will not be entitled to have debt securities represented by that global security registered in their names, will not receive or be entitled to receive the debt securities in the form of a physical certificate and will not be considered the owners or holders of the debt securities under the mortgage indenture or under the debt securities, and may not be entitled to give the trustee directions, instructions or approvals. For that reason, each holder owning a beneficial interest in a global security must rely on DTC's procedures and, if that holder is not a direct or indirect participant in DTC, on the procedures of the DTC participant through which that holder owns its interest, to exercise any rights of a holder of debt securities under the mortgage indenture or the global security.

We will not have any responsibility or liability for any aspect of DTC's records relating to the debt securities or relating to payments made by DTC on account of the debt securities, or any responsibility to maintain, supervise or review any of DTC's records relating to the debt securities.

We will make payments on the debt securities represented by the global securities to DTC or its nominee, as the registered owner of the debt securities. We expect that when DTC or its nominee receives any payment on the debt

securities represented by a global security, DTC will credit participants' accounts with payments in amounts proportionate to their beneficial interests in the global security as shown in DTC's records. We also expect that payments by DTC's participants to owners of beneficial interests in the global security held through those participants will be governed by standing instructions and customary practice as is now the case with securities held for the accounts of customers registered in the names of nominees for such customers. DTC's participants will be responsible for those payments.

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Payments on the debt securities represented by the global securities will be made in immediately available funds. Transfers between participants in DTC will be made in accordance with DTC's rules and will be settled in immediately available funds.

Notices

Notices to holders of debt securities will be given by mail to the addresses of such holders as they appear in the security register.

The Trustee

U.S. Bank National Association will act as trustee under each of the senior debt indenture and the subordinated debt indenture.

DESCRIPTION OF WARRANTS

We may issue warrants for the purchase of common stock, debt securities or other securities registered pursuant to this registration statement and described in this prospectus. We may issue warrants independently or together with other securities that may be attached to or separate from the warrants. We will issue each series of warrants under a separate warrant agreement that will be entered into between us and a bank or trust company, as warrant agent, and will be described in the prospectus supplement relating to the particular issue of warrants. The warrant agent will act solely as our agent in connection with the warrant of such series and will not assume any obligation or relationship of agency for or with holders or beneficial owners of warrants. The following describes certain general terms and provisions of debt warrants or common stock warrants we may offer. We will set forth further terms of the debt warrants, common stock warrants or warrants to purchase other securities and the applicable warrant agreement in the applicable prospectus supplement.

Common Stock and Preferred Stock Warrants

The applicable prospectus supplement will describe the terms of any common stock or preferred stock warrants, including the following:

the title of such warrants;

the offering price of such warrants, which we may distribute proportionately free of charge to our shareholders (in the applicable prospectus supplement, we may refer to warrants distributed proportionately free of charge to our shareholders as rights to purchase our common stock and any securities not taken by our shareholders may be reoffered to the public);

the aggregate number of such warrants;

the designation and terms of the securities purchasable upon exercise of such warrants;

if applicable, the designation and terms of the securities with which such warrants are issued and the number of such warrants issued with each such security;

if applicable, the date from and after which such warrants and any securities issued therewith will be separately transferable;

the number of shares of securities purchasable upon exercise of the warrants and the price at which such shares may be purchased upon exercise;

the date on which the right to exercise such warrants shall commence and the date on which such right shall expire;

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if applicable, the minimum or maximum amount of such warrants which may be exercised at any one time;

the currency, currencies or currency units in which the offering price, if any, and the exercise price are payable;

if applicable, a discussion of certain U.S. federal income tax considerations;

the identity of the warrant agent for the warrants; and

the antidilution provisions of the warrants, if any.

Debt Warrants

The applicable prospectus supplement will describe the terms of any debt warrants, including the following:

the title of the debt warrants;

the offering price for the debt warrants;

the aggregate number of the debt warrants;

the designation and terms of the debt securities purchasable upon exercise of such debt warrants;

if applicable, the designation and terms of the securities with which such debt warrants are issued and the number of such debt warrants issued with each security;

if applicable, the date from and after which such debt warrants and any securities issued therewith will be separately transferable;

the principal amount of debt securities purchasable upon exercise of a debt warrant and the price at which such principal amount of debt securities may be purchased upon exercise;

the date on which the right to exercise such debt warrants shall commence and the date on which such right shall expire;

if applicable, the minimum or maximum amount of such debt warrants which may be exercised at any one time;

whether the debt warrants represented by the debt warrant certificates or debt securities that may be issued upon exercise of the debt warrants will be issued in registered form;

information with respect to book-entry procedures, if any;

the currency, currencies or currency units in which the offering price, if any, and the exercise price are payable;

if applicable, a discussion of certain U.S. federal income tax considerations;

the identity of the warrant agent for the warrants;

the antidilution provisions of such debt warrants, if any;

the redemption or call provisions, if any, applicable to such debt warrants; and

any additional terms of the debt warrants, including terms, procedures and limitations relating to the exchange and exercise of such debt warrants.

DESCRIPTION OF DEPOSITARY SHARES

The following briefly summarizes the provisions of the depositary shares and depositary receipts that we may issue from time to time and which would be important to holders of depositary shares and depositary

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receipts, other than pricing and related terms, which will be disclosed in the applicable prospectus supplement. The prospectus supplement will also state whether any of the general provisions summarized below do not apply to the depositary shares or depositary receipts being offered and provide any additional provisions applicable to the depositary shares or depositary receipts being offered. The following description and any description in a prospectus supplement may not be complete and are subject to, and qualified in their entirety by reference to the terms and provisions of the form of deposit agreement filed as an exhibit to the registration statement which contains this prospectus.

Depositary Shares

We may offer depositary shares evidenced by depositary receipts. Each depositary share represents a fraction or a multiple of a share of a particular series of preferred stock that we issue and deposit with a depositary. The fraction or the multiple of a share of preferred stock, which each depositary share represents, will be set forth in the applicable prospectus supplement.

We will deposit the shares of any series of preferred stock represented by depositary shares according to the provisions of a deposit agreement to be entered into between us and a bank or trust company, which we will select as its preferred stock depositary. We will name the depositary in the applicable prospectus supplement. Each holder of a depositary share will be entitled to all the rights and preferences of the underlying preferred stock in proportion to the applicable fraction or multiple of a share of preferred stock represented by the depositary share. These rights include any applicable dividend, voting, redemption, conversion and liquidation rights. The depositary will send the holders of depositary shares all reports and communications that we deliver to the depositary and which we are required to furnish to the holders of depositary shares.

Depositary Receipts

The depositary shares will be evidenced by depositary receipts issued pursuant to the deposit agreement. Depositary receipts will be distributed to anyone who is buying the fractional shares of preferred stock in accordance with the terms of the applicable prospectus supplement.

Withdrawal of Preferred Stock

Unless the related depositary shares have previously been called for redemption, a holder of depositary shares may receive the number of whole shares of the related series of preferred stock and any money or other property represented by the holder's depositary receipts after surrendering the depositary receipts at the corporate trust office of the depositary, paying any taxes, charges and fees provided for in the deposit agreement and complying with any other requirement of the deposit agreement. Partial shares of preferred stock will not be issued. If the surrendered depositary shares exceed the number of depositary shares that represent the number of whole shares of preferred stock the holder wishes to withdraw, then the depositary will deliver to the holder at the same time a new depositary receipt evidencing the excess number of depositary shares. Once the holder has withdrawn the preferred stock, the holder will not be entitled to re-deposit that preferred stock under the deposit agreement or to receive depositary shares in exchange for such preferred stock.

Dividends and Other Distributions

The depositary will distribute to record holders of depositary shares any cash dividends or other cash distributions it receives on preferred stock. Each holder will receive these distributions in proportion to the number of depositary shares owned by the holder. The depositary will distribute only whole U.S. dollars and cents. The depositary will add

any fractional cents not distributed to the next sum received for distribution to record holders of depositary shares.

In the event of a non-cash distribution, the depositary will distribute property to the record holders of depositary shares, unless the depositary determines that it is not feasible to make such a distribution. If this

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occurs, the depositary may, with our approval, sell the property and distribute the net proceeds from the sale to the holders.

The amounts distributed to holders of depositary shares will be reduced by any amounts required to be withheld by the preferred stock depositary or by us on account of taxes or other governmental charges.

Redemption of Depositary Shares

If the series of preferred stock represented by depositary shares is subject to redemption, then we will give the necessary proceeds to the depositary. The depositary will then redeem the depositary shares using the funds it received from us for the preferred stock. The redemption price per depositary share will be equal to the redemption price payable per share for the applicable series of the preferred stock and any other amounts per share payable with respect to the preferred stock multiplied by the fraction of a share of preferred stock represented by one depositary share. Whenever we redeem shares of preferred stock held by the depositary, the depositary will redeem the depositary shares representing the shares of preferred stock on the same day, provided we have paid in full to the depositary the redemption price of the preferred stock to be redeemed and any accrued and unpaid dividends. If fewer than all the depositary shares of a series are to be redeemed, the depositary shares will be selected by lot or ratably or by any other equitable method as the depositary will decide.

After the date fixed for redemption, the depositary shares called for redemption will no longer be considered outstanding. Therefore, all rights of holders of the depositary shares will cease, except that the holders will still be entitled to receive any cash payable upon the redemption and any money or other property to which the holder was entitled at the time of redemption. To receive this amount or other property, the holders must surrender the depositary receipts evidencing their depositary shares to the preferred stock depositary. Any funds that we deposit with the preferred stock depositary for any depositary shares that the holders fail to redeem will be returned to us after a period of two years from the date we deposit the funds.

Voting the Preferred Stock

Upon receipt of notice of any meeting at which the holders of preferred stock are entitled to vote, the depositary will notify holders of depositary shares of the upcoming vote and arrange to deliver our voting materials to the holders. The record date for determining holders of depositary shares that are entitled to vote will be the same as the record date for the preferred stock. The materials the holders will receive will describe the matters to be voted on and explain how the holders, on a certain date, may instruct the depositary to vote the shares of preferred stock underlying the depositary shares. For instructions to be valid, the depositary must receive them on or before the date specified. To the extent possible, the depositary will vote the shares as instructed by the holder. We agree to take all reasonable actions that the depositary determines are necessary to enable it to vote as a holder has instructed. The depositary will abstain from voting shares of preferred stock deposited under a deposit agreement if it has not received specific instructions from the holder of the depositary shares representing those shares.

Amendment and Termination of the Deposit Agreement

We may agree with the depositary to amend the deposit agreement and the form of depositary receipt at any time. However, any amendment that materially and adversely alters the rights of the holders of depositary receipts will not be effective unless it has been approved by the holders of at least a majority of the affected depositary shares then outstanding. We will make no amendment that impairs the right of any holder of depositary shares, as described above under **Withdrawal of Preferred Stock**, to receive shares of preferred stock and any money or other property represented by those depositary shares, except in order to comply with mandatory provisions of applicable law. If an

amendment becomes effective, holders are deemed to agree to the amendment and to be bound by the amended deposit agreement if they continue to hold their depositary receipts.

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The deposit agreement automatically terminates if a final distribution in respect of the preferred stock has been made to the holders of depositary receipts in connection with our liquidation, dissolution or winding-up. We may also terminate the deposit agreement at any time we wish with at least 60 days prior written notice to the depositary. If we do so, the depositary will give notice of termination to the record holders not less than 30 days before the termination date. Once depositary receipts are surrendered to the depositary, it will send to each holder the number of whole or fractional shares of the series of preferred stock underlying that holder's depositary receipts.

Charges of Depositary and Expenses

We will pay all transfer and other taxes and governmental charges arising solely from the existence of the depositary arrangements. We will pay all charges of the depositary in connection with the initial deposit of the related series of offered preferred stock, the initial issuance of the depositary shares, all withdrawals of shares of the related series of offered preferred stock by holders of the depositary shares and the registration of transfers of title to any depositary shares. However, holders of depositary receipts will pay other taxes and governmental charges and any other charges provided in the deposit agreement to be payable by them.

Limitations on Our Obligations and Liability to Holders of Depositary Receipts

The deposit agreement will expressly limit our obligations and the obligations of the depositary. It will also limit our liability and the liability of the depositary as follows:

we and the depositary are only liable to the holders of depositary receipts for negligence or willful misconduct; and

we and the depositary have no obligation to become involved in any legal or other proceeding related to the depositary receipts or the deposit agreement on your behalf or on behalf of any other party, unless you provide us with satisfactory indemnity.

Resignation and Removal of Depositary

The depositary may resign at any time by notifying us of its election to do so. In addition, we may remove the depositary at any time. Within 60 days after the delivery of the notice of resignation or removal of the depositary, we will appoint a successor depositary.

Reports to Holders

We will deliver all required reports and communications to holders of the offered preferred stock to the depositary, and it will forward those reports and communications to the holders of depositary shares.

ISSUANCE OF COMMON STOCK PURSUANT TO OUR ACQUISITION OF NCONTACT

Effective October 13, 2015, we acquired nContact pursuant to the terms of the Merger Agreement (the "Merger Agreement"), by and among AtriCure, two wholly-owned subsidiaries of AtriCure, and WRYP Stockholders Services, LLC, solely in its capacity as representative of the stockholders ("Representative"). As consideration for the merger, we paid upfront consideration of 3,452,152 shares of our common stock and approximately \$7.6 million in cash and deposited an additional 304,876 shares of our common stock into an escrow established pursuant to the Merger

Agreement for post-closing claims.

Subject to meeting certain additional performance milestones throughout the five-year period beginning January 1, 2016, as more particularly described in the Merger Agreement, the nContact stockholders will be eligible to receive additional consideration in the form of earn out payments (the Earn-Out). The Earn-Out may

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be paid in a combination of cash and our common stock. The Merger Agreement provides that the maximum number of shares that may be issued by AtriCure in connection with all of the transactions contemplated by the Merger Agreement, including the Earn-Out, shall not exceed 19.9% of AtriCure's outstanding shares of common stock prior to the acquisition of nContact. This prospectus relates to the resale of the 3,757,028 shares of our common stock previously issued, and up to 1,902,956 additional shares that may be issued pursuant to the Earn-Out by us to the former stockholders of nContact (the "selling securityholders") in connection with the Merger Agreement.

SELLING SECURITYHOLDERS

The shares of common stock to be sold pursuant to this prospectus identified in the table below were issued in a private placement to the selling securityholders in connection with the consummation of transactions contemplated by the Merger Agreement described above in "Issuance of Common Stock Pursuant to our Acquisition of nContact." When we refer to the selling securityholders in this prospectus, we mean the holders listed in the table below, as well as their permitted transferees, assignees, donees, pledgees and successors in interest.

The Registration Statement of which this prospectus forms a part has been filed pursuant to registration rights granted to the selling securityholders in the Merger Agreement in order to permit the selling securityholders to resell to the public shares of our common stock, as well as any shares of common stock that we may issue or may be issuable by reason of the Earn-Out. We will pay certain expenses of the registration of the selling securityholders' shares of our common stock, including SEC filing fees, but the selling securityholders will pay all underwriting discounts and commissions, if any.

Securityholders that received shares pursuant to the Merger Agreement entered into a Lock-Up and Liquidity Agreement. Pursuant to the Lock-Up and Liquidity Agreement and subject to certain exceptions, for a period that ended the 180th day following the closing of the Merger (the "Lock-Up Period"), the selling securityholders agreed that they would not offer, sell, contract to sell, pledge, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, lend, make any short sale or otherwise transfer, hedge or dispose of any of our shares, enter into any swap or other arrangement that transfers our shares, make any demand for or exercise any right with respect to registration of any of our shares, or publicly announce the intention to do any of the foregoing, without our prior written consent. Notwithstanding the foregoing, AtriCure agreed to use commercially reasonable efforts after the closing to undertake an organized liquidity event that gives selling securityholders the right, during the Lock-Up Period, to sell up to 50% of such selling securityholder's shares received pursuant to the Merger Agreement. The Lock-Up Period does not apply to any of our shares issued as part of any Earn-Outs.

Pursuant to registration rights granted in the Merger Agreement, each selling securityholder must promptly notify us in writing of any changes in the information set forth in the Registration Statement regarding the selling securityholder. We may, by giving two (2) days prior written notice to each selling securityholder, delay or suspend the Registration Statement and require that all selling securityholders immediately cease sales of shares of our common stock pursuant to the Registration Statement, for a period no longer than fourteen (14) calendar days, in the event that: (i) we are involved in any activity, transaction, preparations or negotiations that we desire to keep confidential for business reasons and we in good faith determine that the public disclosure requirements imposed on us pursuant to the Registration Statement would require a disclosure that could cause us imminent and material harm; or (ii) any other event occurs that makes any statement of a material fact in the Registration Statement untrue or requires additions or changes to the Registration Statement; provided, however, that we may only use this right twice in any twelve-month period.

The table below sets forth certain information known to us with respect to the beneficial ownership of the shares of our common stock held by the selling securityholders as of October 13, 2015. Given that the selling

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securityholders may sell, transfer or otherwise dispose of all, some or none of the shares of our common stock covered by this prospectus, we cannot determine the number of such shares that will be sold, transferred or otherwise disposed of by the selling securityholders, or the amount or percentage of shares of our common stock that will be held by the selling securityholders upon termination of this offering. See Plan of Distribution. For the purposes of the table below, we assume that the selling securityholders will sell all of their shares of our common stock covered by this prospectus.

In the table below, the percentage of shares beneficially owned is based on 33,123,362 shares of our common stock outstanding as of June 10, 2016. Beneficial ownership is determined under the rules of the SEC and generally includes voting or investment power with respect to securities. The entities named in the table below have sole voting and sole investment power with respect to all shares beneficially owned.

Except as described herein, none of the selling securityholders has had any material relationship with us except with respect to ownership of the shares of common stock.

Name and address of beneficial owner	Shares beneficially owned prior to this offering		Shares beneficially owned after offering		Percentage of shares
	Common stock (1)	Percentage of shares	Shares to be sold in offering	Common stock	
Intersouth Partners VI, L.P. (2) 102 City Mall Plaza, Suite 200 Durham, NC 27701	1,998,465	6.20%	1,998,465		
Massey Burch Venture Fund II, L.P. (3) 4007 Hillsboro Rd. Suite A Nashville, TN 37215	657,225	2.04%	657,225		
Village Ventures Partners Fund, L.P. (4) 1 Bank Street, 2nd Floor Williamstown, MA 01267	25,969	*	25,969		
Village Ventures Partners Fund A, L.P. (4) 1 Bank Street, 2nd Floor Williamstown, MA 01267	1,874	*	1,874		
Tall Oaks Capital Investments, LLC (5) 315 Old Ivy Way, Suite 301 Charlottesville, VA 22903	79,406	*	79,406		
Finistere-Chicago Partners Fund I L.P. (6) 4365 Executive Drive, Suite 1500 San Diego, CA 92121	393,425	1.22%	393,425		
Finistere-Oceania Partners Fund I L.P. (6) 4365 Executive Drive, Suite 1500 San Diego, CA 92121	108,247	*	108,247		
Hippo Ventures, L.L.C. (7) 3101 Hillsborough St. Raleigh, NC 27607	336,190	1.04%	336,190		
Hippo Ventures II, L.L.C. (7) 3101 Hillsborough St.	264,812	*	264,812		

Raleigh, NC 27607

Harbert Venture Partners, LLC (8)
 2100 Third Avenue North, Suite 600
 Birmingham, AL 35203

309,678 * 309,678

Harbert Venture Partners II, L.P. (9)
 2100 Third Avenue North, Suite 600
 Birmingham, AL 35203

436,463 1.35% 436,463

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Name and address of beneficial owner	Shares beneficially owned prior to this offering		Shares beneficially owned after offering	
	Common stock (1)	Percentage of shares	Shares to be sold in offering	Common stock Percentage of shares
SVB Financial Group 3005 Tasman Dr. Santa Clara, CA 95054	151	*	151	
ZMV Associates, LLC (10) 114 River Road Scarborough, NY 10510	215,528	*	215,528	
NCON Co-Investor, LLC (9) 2100 Third Avenue North, Suite 600 Birmingham, AL 35203	308,875	1.09%	308,875	
Harbert Venture Partners (Annex Fund), LLC (8) 2100 Third Avenue North, Suite 600 Birmingham, AL 35203	38,902	*	38,902	
Excelleration MedTech, LLC (11) 3550 Lakeline Blvd., Suite 170-1520 Leander, TX 78641	367,920	1.14%	367,920	
Lakestone Capital, LLC (12) 2626 Glenwood Avenue, Suite 483 Raleigh, NC 27608	17,487	*	17,487	
Hercules Technology III, L.P. (13) 400 Hamilton Ave., Suite 310 Palo Alto, CA 94301	11,341	*	11,341	
Michael S. Estes PhD 1173 Brown Ave. Lafayette, CA 94549	5,078	*	5,078	
John P. Funkhouser 3340 Alleghany Drive Raleigh, NC 27609	50,819	*	50,819	
James G. Whayne 3922 Overcup Oak Lane Cary, NC 27519	11,306	*	11,306	
Sidney D. Fleischman 1147 Scholastic Circle Durham, NC 27713	20,823	*	20,823	

* denotes less than one percent

- Includes shares of our common stock over which the selling securityholder has sole voting and dispositive power as well as shares of our common stock held in escrow over which WRYP Stockholders Services, LLC in its capacity as representative of the selling securityholder has sole voting power as follows: Intersouth Partners VI, L.P. 109,157 shares; Massey Burch Venture Fund II, L.P. 35,901 shares; Village Ventures Partners Fund, L.P. 1,417 shares; Village Ventures Partners Fund A, L.P. 107 shares; Tall Oaks Capital Investments, LLC 4,342 shares; Finistere-Chicago Partners Fund I L.P. 21,491 shares; Finistere-Oceania Partners Fund I L.P. 5,917

shares; Hippo Ventures, L.L.C. 18,363 shares; Hippo Ventures II, L.L.C. 14,462; Harbert Venture Partners, LLC 16,917 shares; Harbert Venture Partners II, L.P. 23,842 shares; SVB Financial Group 12 shares; ZMV Associates, LLC 11,769 shares; NCON Co-Investor, LLC 16,867 shares; Harbert Venture Partners (Annex Fund), LLC 2,121 shares; Excelleration MedTech, LLC 20,097 shares; Lakestone Capital, LLC 953 shares; Hercules Technology III, L.P. 620 shares; John P. Funkhouser 279 shares; James G. Whyne 114 shares; Sidney D. Fleischman 128 shares. Also includes up to an aggregate of 1,902,956 shares of our common stock that

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- may be issued as Earn-Out as follows: Intersouth Partners VI, L.P. 671,939 shares; Massey Burch Venture Fund II, L.P. 220,935 shares; Village Ventures Partners Fund, L.P. 8,753 shares; Village Ventures Partners Fund A, L.P. 570 shares; Tall Oaks Capital Investments, LLC 26,641 shares; Finistere-Chicago Partners Fund I L.P. 132,256 shares; Finistere-Oceania Partners Fund I L.P. 36,346 shares; Hippo Ventures, L.L.C. 113,036 shares; Hippo Ventures II, L.L.C. 89,059 shares; Harbert Venture Partners, LLC 104,092 shares; Harbert Venture Partners II, L.P. 146,719 shares; ZMV Associates, LLC 72,503 shares; NCON Co-Investor, LLC 103,902 shares; John P. Funkhouser 17,126 shares; James G. Wayne 3,805 shares; Sidney D. Fleischman 7,040 shares; Harbert Venture Partners (Annex Fund), LLC 13,130 shares; Excelleration MedTech, LLC 123,693 shares; Lakestone Capital, LLC 5,899 shares; Hercules Technology III, L.P. 3,805 shares; Michael S. Estes PhD 1,707 shares.
2. The general partner of Intersouth Partners VI, L.P. is Intersouth Associates VI, LLC, the managers of which are Intersouth Advisors, Inc., Dennis Dougherty and Mitch Mumma, each of whom may be deemed to share voting and investment power with respect to the securities and disclaims beneficial ownership of the securities, except to the extent of his/her/its pecuniary interest therein.
 3. The general partner of Massey Burch Venture Fund II, L.P. is MB Partners II, L.P., the managers of which are William F. Earthman III and Donald M. Johnston, each of whom may be deemed to share voting and investment power with respect to the securities and disclaims beneficial ownership of the securities, except to the extent of his/her pecuniary interest therein.
 4. The general partner of Village Ventures Partners Fund, L.P. and Village Ventures Partners Fund A, L.P. is Village Ventures Capital Partners I, LLC, the managers of which are Village Ventures, Inc., Matthew C. Harris and William Bo S. Peabody, each of whom may be deemed to share voting and investment power with respect to the securities and disclaims beneficial ownership of the securities, except to the extent of his/her/its pecuniary interest therein.
 5. The manager of Tall Oaks Capital Investments, LLC is Colin M. Rolph, who may be deemed to share voting and investment power with respect to the securities and disclaims beneficial ownership of the securities, except to the extent of his pecuniary interest therein.
 6. The general partner of Finistere-Chicago Partners Fund I L.P. and Finistere-Oceania Partners Fund I L.P. is Finistere Ventures, LLC, the managers of which are Bruce J. Brumfield, Jr., Jerry Caulder and Aramia Kukutai, each of whom may be deemed to share voting and investment power with respect to the securities and disclaims beneficial ownership of the securities, except to the extent of his/her/its pecuniary interest therein.
 7. The manager of Hippo Ventures, L.L.C. and Hippo Ventures II, L.L.C. is Robert Young, who may be deemed to share voting and investment power with respect to the securities and disclaims beneficial ownership of the securities, except to the extent of his pecuniary interest therein.
 8. The manager of Harbert Venture Partners, LLC and Harbert Venture Partners (Annex Fund), LLC is Harbert Venture Partners MM, LLC, the managers of which is HMC-Virginia, Inc. and William W. Brooke, each of whom may be deemed to share voting and investment power with respect to the securities and disclaims beneficial ownership of the securities, except to the extent of his/her/its pecuniary interest therein.
 9. The general partner of Harbert Venture Partners II, L.P., and the manager of NCON Co-Investor, LLC, is Harbert Venture Partners II GP, LLC, the managers of which are HMC-Virginia, Inc. and William W. Brooke, each of whom may be deemed to share voting and investment power with respect to the securities and disclaims beneficial ownership of the securities, except to the extent of his/her/its pecuniary interest therein.
 10. The manager of ZMV Associates, LLC is Robert C. Mayer, Jr., who may be deemed to share voting and investment power with respect to the securities and disclaims beneficial ownership of the securities, except to the extent of his pecuniary interest therein.
 11. The manager of Excelleration MedTech, LLC is Robert L. Kay, who may be deemed to share voting and investment power with respect to the securities and disclaims beneficial ownership of the securities, except to the extent of his pecuniary interest therein.
 - 12.

The manager of Lakestone Capital, LLC is Todd A. Robinson, who may be deemed to share voting and investment power with respect to the securities and disclaims beneficial ownership of the securities, except to the extent of his pecuniary interest therein.

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13. The general partner of Hercules Technology III, L.P. is Hercules Technology SBIC Management, LLC, the managers of which are Hercules Technology Growth Capital, Inc., Manuel Henriquez, Mark Harris, Scott Bluestein and Walter Lee, each of whom may be deemed to share voting and investment power with respect to the securities and disclaims beneficial ownership of the securities, except to the extent of his/her/its pecuniary interest therein.

PLAN OF DISTRIBUTION

We and the selling securityholders may offer the securities covered by this prospectus in any of the following ways (or in any combination) from time to time:

to or through underwriters or dealers;

directly to purchasers or to a single purchaser;

through agents; or

in at the market offerings, within the meaning of Rule 415(a)(4) of the Securities Act, to or through a market maker or into an existing trading market, on an exchange or otherwise.

In addition, we and any selling securityholder may enter into derivative or other hedging transactions with third parties, or sell securities not covered by this prospectus to third parties in privately negotiated transactions. If any applicable prospectus supplement indicates, in connection with such a transaction, such third parties may, pursuant to this prospectus and any applicable prospectus supplement, sell securities covered by this prospectus and any applicable prospectus supplement. If so, the third party may use securities borrowed from others to settle such sales and may use securities received from us to close out any related short positions. We and the selling securityholders may also loan or pledge securities covered by this prospectus and any applicable prospectus supplement to third parties, who may sell the loaned securities or, in an event of default in the case of a pledge, sell the pledged securities pursuant to this prospectus and any applicable prospectus supplement.

Any applicable prospectus supplement will set forth the terms of the offering of the securities covered by this prospectus, including:

the name or names of any underwriters, dealers or agents and the amounts of securities underwritten or purchased by each of them, if any;

any material relationship with the underwriter and the nature of such relationship, if any;

the over-allotment options under which underwriters may purchase additional securities, if any;

the public offering price or purchase price of the securities and the proceeds to us and any discounts, commissions, or concessions or other items constituting compensation allowed, re-allowed or paid to underwriters, dealers or agents, if any;

any securities exchanges on which the securities may be listed, if any; and

the manner for refunding any excess amount paid (including whether interest will be paid).

Any public offering price or purchase price and any discounts, commissions, concessions or other items constituting compensation allowed or re-allowed or paid to underwriters, dealers or agents may be changed from time to time.

The securities may be offered and sold from time to time in one or more transactions, including negotiated transactions, at a fixed price or prices or at varying prices determined at the time of sale. If underwriters are used in the sale of any securities, the securities will be acquired by the underwriters for their own account and may be resold from time to time in one or more transactions described above. The securities may be either offered to the

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public through underwriting syndicates represented by managing underwriters, or directly by underwriters. Generally, the underwriters' obligations to purchase the securities will be subject to certain conditions precedent. The underwriters will be obligated to purchase all of the securities if they purchase any of the securities.

We and the selling securityholders may sell the securities through agents from time to time. If required by applicable law, any applicable prospectus supplement will name any agent involved in the offer or sale of the securities and any commissions we pay to them. Generally, unless otherwise indicated in any applicable prospectus supplement, any agent will be acting on a best efforts basis for the period of its appointment. If a dealer is used in the sale of the securities in respect of which the prospectus is delivered, we or the selling stockholders will sell such securities to the dealer, as principal. The dealer may then resell such securities to the public at varying prices to be determined by such dealer at the time of resale.

We and the selling securityholders may authorize underwriters, dealers or agents to solicit offers by certain purchasers to purchase the securities from us at the public offering price set forth in any applicable prospectus supplement or other prices pursuant to delayed delivery or other contracts providing for payment and delivery on a specified date in the future. Any delayed delivery contracts will be subject only to those conditions set forth in any applicable prospectus supplement, and any applicable prospectus supplement will set forth any commissions we pay for solicitation of these delayed delivery contracts.

Each underwriter, dealer and agent participating in the distribution of any offered securities that are issuable in bearer form will agree that it will not offer, sell, resell or deliver, directly or indirectly, offered securities in bearer form in the United States or to U.S. persons except as otherwise permitted by Treasury Regulations Section 1.163-5(c)(2)(i)(D).

Offered securities may also be offered and sold, if so indicated in any applicable prospectus supplement, in connection with a remarketing upon their purchase, in accordance with a redemption or repayment pursuant to their terms, or otherwise, by one or more remarketing firms, acting as principals for their own accounts or as agents for us or the selling securityholders. Any remarketing firm will be identified and the terms of its agreements, if any, with us, and its compensation will be described in any applicable prospectus supplement.

We and the selling securityholders may sell equity securities in an offering at the market, as defined in Rule 415 under the Securities Act. A post-effective amendment to this Registration Statement will be filed to identify the underwriter(s) at the time of the take-down for at the market offerings.

Agents, underwriters and other third parties described above may be entitled under relevant underwriting or other agreements to indemnification by us or the selling securityholders against certain civil liabilities under the Securities Act, or to contribution with respect to payments which the agents, underwriters or other third parties may be required to make in respect thereof. Agents, underwriters and such other third parties may be customers of, engage in transactions with, or perform services for us or the selling securityholders in the ordinary course of business.

LEGAL MATTERS

The validity of the securities offered by this prospectus will be passed upon for us by Keating Muething & Klekamp PLL, Cincinnati, Ohio.

EXPERTS

The consolidated financial statements and the related financial statement schedule, incorporated in this prospectus by reference from the Company's Annual Report on Form 10-K for the year ended December 31,

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2015 and the effectiveness of AtriCure's internal control over financial reporting have been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in its reports, which are incorporated by reference herein. Such financial statements and financial statement schedule have been so incorporated in reliance upon the reports of such firm given upon their authority as experts in accounting and auditing.

The audited financial statements of nContact Surgical, Inc. and Subsidiaries as of and for the years ended December 31, 2014 and 2013, included in this prospectus and elsewhere in the registration statement have been so included in reliance upon the report of Grant Thornton LLP, independent certified public accountants, upon the authority of said firm as experts in accounting and auditing.

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ATRICURE, INC. AND SUBSIDIARIES AND nCONTACT SURGICAL, INC. AND SUBSIDIARIES

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Table of Contents**nContact Surgical, Inc. and Subsidiaries****Condensed Consolidated Balance Sheets (unaudited)**

September 30	2015	2014
	\$	\$
Assets		
Current assets:		
Cash and cash equivalents	3,911,195	4,235,254
Accounts receivable	1,601,176	1,668,140
Short-term investments, net	4,990,254	826,812
Prepaid expenses	171,097	184,172
Inventory, net	677,307	645,724
Other current assets		7,377
Total current assets	11,351,029	7,567,479
Deposits	7,433	7,433
Long-term deferred financing costs	322,377	
Property and equipment, net	327,131	359,106
Total assets	12,007,970	7,934,018
Liabilities and stockholders equity		
Current liabilities:		
Accounts payable	256,379	150,685
Accrued expenses	832,534	724,192
Deferred revenue	277,363	338,055
Current portion of deferred rent	9,183	2,380
Current portion of notes payable		6,688
Total current liabilities	1,375,459	1,222,000
Long-term portion of notes payable and debt	9,766,061	2,803
Warrant liability	465,262	182,488
Total liabilities	11,606,782	1,407,291
Commitments and contingencies (Note 4)		
Stockholders equity:		
Common stock, \$0.00001 par value; 20,696,284 shares authorized; 2,307,489 shares and 2,113,218 shares issued and outstanding as of Sept 30, 2015 and 2014, respectively	23	21
Series A convertible preferred stock, \$0.00001 par value; 2,755,372 shares designated, issued and outstanding as of Sept. 30, 2015 and 2014 (aggregate liquidation preference of \$8,765,291)	8,765,291	8,435,291
Series B convertible preferred stock, \$0.00001 par value; 2,619,080 shares designated, issued and outstanding as of Sept. 30, 2015 and 2014 (aggregate	11,578,044	11,128,044

liquidation preference of \$11,578,044)		
Series C convertible preferred stock, \$0.00001 par value; 2,282,981 shares designated, issued and outstanding as of Sept. 30, 2015 and 2014 (aggregate liquidation preference of \$12,518,158)	12,518,158	12,008,158
Series C-1 convertible preferred stock, \$0.00001 par value; 1,289,210 shares designated; 1,285,181 shares issued and outstanding as of Sept. 30, 2015 and 2014 (aggregate liquidation preference of \$6,643,966)	6,643,966	6,356,868
Series D convertible preferred stock, \$0.00001 par value; 4,464,726 shares designated; 4,357,291 shares issued and outstanding as of Sept. 30 2015 and 2014 (aggregate liquidation preference of \$21,018,995)	21,018,995	20,044,576
Series D-1 convertible preferred stock, \$0.00001 par value; 3,491,620 shares designated; 3,001,937 shares issued and outstanding as of Sept. 30, 2015 and 2014 (aggregate liquidation preference of \$12,859,991)	12,836,320	12,139,888
Accumulated deficit	(72,959,609)	(63,586,119)
Total stockholders equity	401,188	6,526,727
Total liabilities and stockholders equity	12,007,970	7,934,018

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Table of Contents**nContact Surgical, Inc. and Subsidiaries****Condensed Consolidated Statements of Operations (unaudited)**

For the nine months ended September 30	2015	2014
	\$	\$
Revenue	7,731,763	6,238,382
Cost of sales	1,010,539	886,848
Gross margin	6,721,224	5,351,534
Operating expenses:		
General and administrative	2,821,888	2,104,682
Research and development	586,677	595,950
Quality assurance and regulatory	1,050,196	1,033,582
Medical education	2,033,677	1,689,097
Sales and marketing	3,947,050	3,485,977
Total operating expenses	10,439,488	8,909,288
Operating loss	(3,718,264)	(3,557,754)
Other income (expense):		
Interest (expense) income	(915,355)	5,568
Change in fair value of preferred stock warrants	46,447	19,519
Net loss	(4,587,172)	(3,532,667)

Table of Contents**nContact Surgical, Inc. and Subsidiaries****Condensed Consolidated Statements of Cash Flows (unaudited)**

For the nine months ended September 30	2015	2014
	\$	\$
Cash flows from operating activities:		
Net loss	(4,587,172)	(3,532,667)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation	138,060	131,364
Disposal of fixed assets	46,164	5,523
Change in fair value of preferred stock warrants	(46,447)	(19,519)
Stock-based compensation	48,812	41,163
Amortization of deferred financing costs	124,657	
Amortization of debt discount	99,507	
Changes in operating assets and liabilities:		
Accounts receivable	(530,633)	(19,160)
Prepaid expenses	(41,493)	1,553
Deposits and other assets	10,707	(3,767)
Inventory, net	98,972	61,272
Accounts payable	94,050	(203,349)
Accrued expenses	438,511	370,240
Deferred revenue	(56,516)	338,055
Deferred rent	1,147	(7,138)
Net cash used in operating activities	(4,161,674)	(2,836,430)
Cash flows from investing activities:		
Purchase of property and equipment	(191,798)	(215,731)
Proceeds from sale of equipment	12,000	
Purchases of short-term investments	(5,340,254)	
Sales and maturities of short-term investments	350,000	3,667,952
Net cash (used in) provided by investing activities	(5,170,052)	3,452,221
Cash flows from financing activities:		
Proceeds from sale of common stock	71,609	5,461
Sale of preferred stock		40,475
Payments on notes payable	(7,845)	(4,849)
Net cash provided by financing activities	63,764	41,087
Net (decrease) increase in cash and cash equivalents	(9,267,962)	656,878
Cash and cash equivalents, beginning of period	13,179,157	3,578,376
Cash and cash equivalents, end of period	3,911,195	4,235,254

Supplemental disclosure of cash flow information	Cash paid for interest	704,329	357
Warrant liability		46,447	19,519
Non-cash accretion of preferred stock		12,912	12,912

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nContact Surgical, Inc. and Subsidiaries

Notes to Condensed Consolidated Financial Statements (unaudited)

1 Summary of Significant Accounting Policies

Description of Business and Basis of Presentation

nContact Surgical, Inc. and Subsidiaries (the Company) is a Delaware corporation operating in Morrisville, North Carolina. The Company was incorporated on July 15, 2004, with a focus on providing cardiac tissue coagulation devices used during surgical procedures. The Company has sales of its product in the United States and Europe.

On March 5, 2014, the Company entered into a Membership Interest Purchase Agreement with Paul Funkhouser for the purchase of 100% of the membership interests of Shared Healthcare Metrics, LLC for a nominal amount. The Board of Directors approved this purchase agreement by written consent as it deemed it to be in the best interest of the Company.

Since inception, the Company has devoted substantially all of its efforts towards developing and marketing its technology. For the period ended September 30, 2015 and 2014, the Company has consolidated negative cash flows from operations of \$4,161,674 and \$2,836,430 respectively and a consolidated loss from operations of \$4,587,172 and \$3,532,667. As of September 30, 2015 and 2014, the Company has a consolidated accumulated deficit of \$72,959,609 and \$63,586,119 respectively. Management's plans include increasing sales, continued development and marketing of its product and diligent management of expenses. In November 2014, the Company entered into a Loan and Security agreement for \$20,000,000 to provide additional capital for the Company.

Principles of Consolidation

The consolidated financial statements include the accounts of the Company and its wholly owned subsidiary, Shared Healthcare Metrics, LLC. All intercompany accounts and transactions have been eliminated in consolidation.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Significant estimates include the allowance for doubtful accounts, deferred revenue, inventory allowances, deferred tax asset valuation allowances, valuation of stock warrant liabilities and stock-based compensation expense. Actual results could differ from those estimates.

Cash and Cash Equivalents

The Company considers all highly liquid investments with an original maturity of three months or less from the balance sheet date to be cash equivalents.

Short-term Investments

The Company considers all investments with a maturity of more than three months but less than a year from the balance sheet date as short-term investments. Short-term investments consist of government and corporate bonds. The

investments are classified as trading securities, and are carried at cost plus unrealized gain or loss which approximates fair value. Unrealized holding gains and losses are included in earnings. For purpose of determining realized gains and losses, the cost of securities sold is based on specific identification.

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Credit Risk

Financial instruments, which potentially subject the Company to concentrations of credit risk, consist principally of cash and cash equivalents, short-term investments and accounts receivables. Cash deposits are held in federally insured financial institutions in the United States of America. However, at times, deposits have exceeded the amount insured by the Federal Deposit Insurance Corporation.

Accounts Receivable

Accounts receivable, which subject the Company to credit risk, are stated at net realizable value. Sales are made to hospitals located throughout the United States and Europe. Accounts receivable are typically due within 30 days for domestic customers and due within 60-90 days for foreign customers. Amounts outstanding for longer than the payment terms are considered past due. At each balance sheet date, the Company assesses its need for an allowance for potential losses in the collection of its accounts receivable. Estimated losses are based on experience and management's opinion of the current status of existing receivables. At September 30, 2015 and 2014, the Company determined that no allowance was necessary.

Inventory

Inventory is comprised of parts used in the Company's coagulation devices or sold as an accessory to the devices. Inventory is valued at lower of cost or market and is accounted for on a first-in, first-out (FIFO) basis. The evaluation of inventory obsolescence involves an approach that incorporates both recent historical information and management estimates of trends. As of September 30, 2015 and 2014, the Company maintained reserves of \$25,000 to reduce its inventory to its net realizable value.

Deferred Financing Costs

Deferred financing costs represent the direct costs of entering into the Company's Loan and Security Agreement in November 2014 detailed further in Note 5. These costs are amortized as interest expense using the effective interest method over the term of the loan and are presented on the balance sheet, net of accumulated amortization.

Property and Equipment

Property and equipment consists primarily of laboratory, production and computer equipment, which are recorded at cost and depreciated using the straight-line method over their estimated useful lives, ranging from three to ten years. Depreciation expense for the periods ended September 30, 2015 and 2014, was \$138,060 and \$131,364, respectively.

Repairs and maintenance costs are expensed as incurred.

Impairment of Long-lived Assets

The Company evaluates the recoverability of its property and equipment on an annual basis or more frequently if certain events occur that indicate impairment. The Company assesses long-lived assets for impairment by comparing net book value of such assets to the estimated future undiscounted cash flows attributable to such assets. Accordingly, when indicators of impairment are present, the Company evaluates the carrying value of these assets in relation to the operating performance of these assets and future undiscounted cash flows expected to result from the use of these assets. No such impairments have been recognized during the periods ended September 30, 2015 and 2014.

Revenue Recognition

The Company enters into sales arrangements that may provide for multiple deliverables to a customer. Sales of medical equipment primarily consists of disposable surgical ablation devices. Generators and other capital

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equipment (such as the Company's monitors, and laptops) are loaned at no cost to direct customers that use the Company's disposable products. Depreciation of such assets is included in cost of sales. The Company identifies all goods and/or services that are to be delivered separately under a sales arrangement and allocates revenue to each deliverable based on relative fair values. Fair values are generally established based on the prices charged when sold separately by the Company. In general, revenues are separated between medical equipment, and the loaning of the required generators and laptops. The allocated revenue for each deliverable is then recognized ratably based on relative fair values of the components of the sale. Revenue from the sales of the disposal devices is recognized when a sale is made to a customer, in accordance with shipping terms, which is generally upon the shipment of goods. Shipping and handling costs are included within cost of sales in the statements of operations. Shipping costs billed to customers are included in revenues.

Additionally, the Company provides customers with a generator on loan and defers a portion of the revenue from the related generators based on the relative fair value of the equipment lease. The generator lease agreements typically are for a one year period, after which, the lease will auto-renew for an additional period of one year or until the Customer returns the generator. As the lease period of the generator is not a fixed term, the Company utilizes an assumption regarding the average number of auto renewals based on historical data. This assumption is then used to estimate the fair value of the loaned generator based on the estimated lease period. This deferred lease revenue is recognized ratably, on a straight-line basis, over the abovementioned estimated lease period.

Revenues and accounts receivable from individual customers that are equal to or greater than 10% of revenues or accounts receivable are as follows:

	September 30, 2015		September 30, 2014	
	Percent Revenue	Percent Accounts Receivable	Percent Revenue	Percent Accounts Receivable
Customer A	*	11%	*	*%
Customer B	*		*	11%
Customer C	*		*	11%

* Less than 10%

Research and Development

The Company expenses research and development costs as incurred. These costs primarily consist of salaries, consulting fees, development materials and supplies directly involved in the research and development of new technology. Research and development costs totaled \$586,677 and \$595,950 for the periods ended September 30, 2015 and 2014, respectively, and are shown as research and development expenses in the accompanying statements of operations.

Sales Tax

Sales taxes and other taxes collected from customers and remitted to governmental authorities are presented on a net basis and, as such, are excluded from revenues.

Stock-based Compensation

Stock-based compensation cost is measured at the grant date based on the fair value of the award and is recognized as an expense over the requisite service period, which is the vesting period. Stock-based compensation costs for stock options are recognized on a straight-line basis.

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The fair value of options granted is estimated on the date of grant using the Black-Scholes-Merton option pricing model based on the assumptions in the table below.

September 30	2015	2014
Expected dividend yield	0.00%	0.00%
Weighted average expected stock price volatility	82.9%	91.5%
Range of expected stock price volatility	29% to 172%	29% to 206%
Weighted average risk-free interest rate	0.70%	0.40%
Range of risk-free interest rate	0.70%	0.40%
Expected life of options	2.5 years	2 years

The expected life of the options is based on evaluations of historical and expected future employee exercise behavior. The risk-free interest rate is based on the U.S. Treasury rates at the date of grant with maturity dates approximately equal to the expected life at the grant date. Volatility is based on the historical volatility of several public entities that are similar to the Company, as the Company does not have sufficient historical transactions of its own shares on which to base expected volatility.

Restricted Stock

As needed, the Company will grant restricted common stock to executives and consultants. These shares vest over specified time periods. With these agreements, the Company has the option to repurchase any unvested shares upon termination of the executive or consulting agreement.

An executive of the Company purchased 35,000 shares of restricted common stock during 2006 at \$0.20 per share. As of the purchase date of the shares, 50% of the shares vested immediately, with the remaining to vest ratably over 32 months. As of September 30, 2014, all shares purchased were fully vested. This executive also purchased 29,000 shares of restricted common stock during 2007 at \$0.20 per share. The shares vest ratably over 28 months. As of September 30, 2014, all shares purchased were fully vested. In 2008, this executive purchased 160,469 shares of restricted common stock that were granted in 2007 at \$0.21 per share. As of the purchase date, approximately 96,300 shares vested immediately with the rest to vest upon completion of milestones established in Series C-1. As of September 30, 2015, none of these milestones had been achieved. In 2011, this executive purchased 343,829 shares of restricted common stock that were granted as stock options in 2010 at \$0.24 per share, then modified and exercised early into restricted common stock. One-fourth of the shares will vest one year after vesting commencement and the remainder will vest at the rate of 1/48 at the end of each month thereafter. As of September 30, 2015 all shares were vested, at September 30, 2014 322,340 shares were vested.

Consultants of the Company purchased 75,000 shares of restricted common stock during 2007 at \$0.21 per share. As of September 30, 2014, all shares purchased were fully vested. In 2008, a consultant purchased 10,000 shares of restricted common stock at \$0.371 per share. As of September 30, 2014, all shares purchased were fully vested. In 2010, a consultant purchased 60,000 shares of restricted common stock at \$0.29 per share. As of September 30, 2014, all shares purchased were fully vested.

Quality Assurance and Regulatory

Quality assurance and regulatory costs include direct costs associated with personnel performing quality control testing, including salary and benefit expenses. This function includes ongoing quality control testing, regulatory and compliance audits, verification and sterilization testing of products under development, and ongoing costs associated

with clinical studies support. Quality assurance and regulatory costs totaled \$1,050,196 and \$1,033,582 for the periods ended September 30, 2015 and 2014, respectively, and are shown as quality assurance and regulatory expenses in the accompanying consolidated statements of operations.

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Table of Contents**Medical Education**

Medical education costs include direct costs associated with personnel performing training and coaching of physicians on the proper use of the Company's technology. These costs consist primarily of salaries and benefits, travel and physician consulting fees. Medical education costs totaled \$2,033,677 and \$1,689,097 for the periods ended September 30, 2015 and 2014, respectively, and are shown as medical education expenses in the accompanying consolidated statements of operations.

Sales and Marketing

Sales and marketing costs include direct costs associated with personnel performing sales activities of the product and also marketing of the product and procedure through avenues like tradeshow. Sales and marketing also includes the costs that Shared Healthcare Metrics, LLC incurred. These costs totaled \$337,420 and \$248,148 for the periods ended September 30, 2015 and September 30, 2014 respectively. Sales and marketing costs totaled \$3,947,050 and \$3,485,977 for the periods ended September 30, 2015 and 2014, respectively, and are shown as sales and marketing expenses in the accompanying statements of operations.

Income Taxes

The Company accounts for income taxes using an asset and liability method, which requires the recognition of deferred tax assets or liabilities for the temporary differences between financial reporting and tax bases of the Company's assets and liabilities, and for tax carryforwards at enacted statutory tax rates in effect for the years in which the differences are expected to reverse. The effect on deferred taxes of a change in tax rates is recognized in income in the period that includes the enactment date. In addition, valuation allowances are established when necessary to reduce deferred tax assets to the amounts expected to be realized. The Company has recorded a full valuation allowance against its net deferred tax assets as it is more likely than not that the benefit of the deferred tax assets will not be recognized in future periods.

3 Stockholders Equity and Convertible Preferred Stock

At September 30, 2015, the Company was authorized to issue 37,599,273 shares of capital stock (\$0.00001 par value), of which 20,696,284 shall be designated Common Stock and 16,902,989 shall be designated Preferred Stock (2,755,372 shares of Series A Preferred Stock, 2,619,080 shares of Series B Preferred Stock, 2,282,981 shares of Series C Preferred Stock, 1,289,210 shares of Series C-1 Preferred Stock, 4,464,726 shares of Series D Preferred Stock and 3,491,620 shares of Series D-1 Preferred Stock).

On January 31, 2014, certain members of the Company's management team purchased a total of 10,871 shares of Series D Convertible Preferred Stock for \$3.7232 per share for gross proceeds of \$40,475 as approved by the Board of Directors on January 27, 2014.

The Preferred Stock was originally recorded at the net proceeds received by the Company at issuance. The difference between the net proceeds and the total redemption price is being accreted using the straight-line method (which approximates the amount that would be calculated under the effective interest method) over the period from issuance until the redemption date. As of September 30, 2015 cumulative accrued dividends were \$19,701,876.

4 Commitments and Contingencies

Lease Agreements. The Company leases certain office, manufacturing and warehouse facilities and equipment under noncancelable operating leases that expire at various terms through 2019. During 2015, the company entered into a month to month lease for a furnished corporate apartment, the rent expense for the period ended September 30, 2015 is \$20,487.

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Purchase Agreements. The Company enters into standard purchase agreements with certain vendors in the ordinary course of business. Outstanding commitments at September 30, 2015 and 2014 were not significant.

Legal. The Company is not currently party to any material pending or threatened litigation. The Company may, from time to time, become a party to legal proceedings.

5 Debt

On November 10, 2014, the Company signed a Loan and Security Agreement with Hercules Technology Growth Capital, Inc for a \$20,000,000 term loan. The first tranche of \$10,000,000 was funded on the closing date. The loan has an interest only period for the first twenty-one months followed by equal installments of principal and interest. The last payment is a balloon payment on the maturity date of November 1, 2018. The rate of interest is the greater of 9.25% or 9.25% plus prime minus 5.5%. The loan is collateralized by any and all properties, rights and assets of the Company.

Upon meeting performance milestones, the Company can access two additional tranches of \$5,000,000 each. The second tranche milestone is the achievement of not less than 85% of projected conservative revenues for the six months ended June 30, 2015. The second tranche is available from July 5, 2015 through August 15, 2015. The third tranche of \$5,000,000 is available from April 5, 2016 through May 15, 2016 if the Company meets revenue milestones of not less than 85% of Conservative Revenue Projections for the twelve months ended March 31, 2016. First Amendment to Security and Loan Agreement, dated August 8, 2015 modified the second tranche to eliminate milestones and be available for October 5, 2015 through December 15, 2015. Additionally, the third tranche milestones were eliminated and the tranche is available from June 15, 2016 to August 15, 2016. Each of the tranches are available upon review and approval by Hercules.

In connection with this Agreement, the Company issued 201,440 shares of Series D-1 Preferred Stock warrants with an exercise price of \$3.7232 per share which were recorded for \$333,445 based on the fair value of the warrants at the grant date. The holders of the warrants have the option to exercise the warrants for Series D-1 Stock, which is mandatorily redeemable for common stock if certain conditions are met. Accordingly, the initial fair value of the warrants was recorded as an accrued warrant liability on the consolidated balance sheets with a debt discount recorded offsetting the warrant liability.

In connection with the Note and Warrant Financing completed on February 10, June 4, and August 16, 2010, the Company issued 107,435 warrants, which granted investors the right to purchase shares of the capital stock into which the Notes converted. The Notes were converted into Series D Preferred Shares at \$3.7232 per share on October 20, 2010 and November 5, 2010, for \$4,154,081, including accrued and unpaid interest. The warrants are exercisable immediately and expire on May 1, 2017. All warrants remain outstanding as of September 30, 2015.

The warrants are marked to market at the end of the reporting period using the Black-Scholes valuation model. At September 30, 2015 and 2014, all outstanding warrants were adjusted to the fair value of \$465,262 and \$182,488 respectively as determined by the Company, resulting in a gain of \$46,447 and \$19,519 for the periods ending September 2015 and 2014 respectively, which has been reflected in Change in fair value of preferred stock warrants on the consolidated statement of operations. If the Company borrows on the third tranche, an additional warrant of 67,147 shares of Series D-1 Preferred Stock warrants with an exercise price of \$3.7232, or the most recent equity round pricing will be issued.

6 Line of Credit

On July 17, 2009, the Company signed a Loan and Security Agreement with a commercial bank for a revolving line of credit in the amount of \$500,000. As of September 30, 2014 the Company has not drawn any amounts on this line of credit. The line matures on July 29, 2015 and allows for the Company to borrow up to 80% of eligible accounts receivable at an interest rate of prime plus 1.5%, with a minimum rate of 5.5%. The line is

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collateralized by any and all properties, rights and assets of the Company. In connection with this revolving line of credit, the Company issued 4,029 shares of Series C-1 Preferred Stock warrants with an exercise price of \$3.7232 per share which were recorded for \$13,166 based on the fair value of the warrants.

In connection with the Loan and Security Agreement, the Company is required to maintain all banking relationships and has provided a blanket lien on all assets including intellectual property. Additionally, the Company must meet monthly and quarterly covenants as set forth by the Bank. The Bank and the Company agreed to Amendments and Forbearance agreements whereby the bank has provided forbearance for covenants that have been defaulted and amendments to covenants. Previous agreements are as follows: First Amendment and Forbearance to the Loan and Security Agreement dated April 26, 2010, Second Amendment dated September 17, 2010, Third Amendment dated March 22, 2011, and Fourth Amendment dated July 25, 2011, and the Fifth Amendment and Default Waiver on May 22, 2012, and the Sixth Amendment and Default Waiver on February 26, 2013. In October 2014, the Company terminated the Loan and Security Agreement. At the time of the termination the Company had no outstanding draws against the line of credit.

7 Employee Benefit Plan

Effective January 5, 2006, the Company began a 401(k) profit sharing plan, which allows eligible employees to defer up to 100% of their compensation, up to the applicable limit. The Company, at its discretion, may make matching contributions. However, no matching contributions were made during the nine month periods ended September 30, 2015 or 2014.

8 Inventory, Net

Inventories consist of the following at Sept 30:

	2015	2014
	\$	\$
Raw materials	343,070	392,238
Work in process	19,060	19,466
Finished goods	340,177	259,020
Less reserve	(25,000)	(25,000)
Total inventory, net	677,307	645,724

9 Notes Payable

In March 2011, the Company entered into a note payable for \$34,429 with a financial institution in order to purchase a vehicle. The note payable requires monthly payments of principal and interest totaling \$578 payable per month through February 2016. The interest rate for the note payable is fixed at 3.9% for a period of five years. On March 19, 2015 the Company sold the vehicle for \$12,000 and paid off the remaining balance on the Note.

10 Stock-based Compensation

On May 25, 2005, the Company adopted the 2005 Stock Plan (the Plan), as amended during 2008, 2010, 2013, and 2015 to increase the number of authorized shares. The Plan provides for the granting of up to 3,917,104 stock options

to employees, directors and consultants of the Company. On April 1, 2015 the Board of Directors approved the 6th Amendment to the Certificate of Incorporation, which increased shares allowed for Common Stock. The Board of Directors recommended and Stockholders consented to an amendment and increase to the 2005 Stock Plan of 720,000 additional shares. The Board of Directors shall determine the exercise price, term and dates of the exercise of all options at their grant date. Absent a public market price for the Company s

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common stock, the Board of Directors, based on an independent valuation and other factors, will determine the estimated fair market value of the common stock. The Company issues new shares of common stock upon exercise of stock options. Under the Company's stock option plan, options become vested over four years and expire not more than 10 years after the date of grant.

The Company recognizes expense related to the fair value of the stock-based compensation awards, including employee stock options.

Compensation cost for stock-based employee compensation was \$48,812 and \$41,163 for the nine month periods ended September 30, 2015 and 2014, respectively.

11 Fair Value Measurements

ASC 820, Fair Value Measurements and Disclosures, establishes a framework for measuring fair value. That framework provides a hierarchy that prioritizes the inputs to valuation techniques used to measure fair value.

That hierarchy gives highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements).

The three levels of the fair value hierarchy under ASC 820 are described below:

Level 1 Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets.

Level 2 Inputs to the valuation methodology include:

Quoted prices for similar assets or liabilities in active markets;

Quoted prices for identical or similar assets or liabilities in inactive markets;

Inputs other than quoted prices that are observable for the asset or liability; and

Inputs derived principally from/corroborated by observable market data by correlation or other means.

Level 3 Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

The fair value measurement level of an asset or liability within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

Changes in economic conditions or valuation techniques may require the transfer of financial instruments from one fair value to another. In such instances, the transfer is reported at the beginning of the reporting period. For the nine months periods ended September 30, 2015 and 2014, there were no transfers in and out of Level 1, 2, or 3.

The following table sets presents the Company's investments, within the fair value hierarchy, as of September 30, 2015 and 2014. The Company's preferred stock warrants were measured based on unobservable inputs, and thus is considered a Level 3 financial instrument. The Company analyzes financial instruments with features of both liabilities and equity under ASC 480, *Distinguishing Liabilities from Equity*.

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The following table sets presents the Company's investments, within the fair value hierarchy, as of September 30, 2015.

	Level 1	Level 2	Level 3	Total
	\$	\$	\$	\$
Assets:				
Money Market Funds		3,316,432		3,316,432
Corporate Bonds		4,990,254		4,990,254
Liabilities:				
Warrant liability			465,262	465,262

The following table sets presents the Company's investments, within the fair value hierarchy, as of September 30, 2014.

	Level 1	Level 2	Level 3	Total
	\$	\$	\$	\$
Assets:				
Money Market Funds		3,541,675		3,541,675
Corporate Bonds		826,812		826,812
Liabilities:				
Warrant liability			182,488	182,488

12 Related-party Transactions

The Company entered into a Membership Interest Purchase Agreement on March 5, 2014 for the purchase of 100% of the membership interests of Shared Healthcare Metrics, LLC. The Board of Directors approved this purchase agreement by written consent as it deemed it to be in the best interest of the Company.

On January 31, 2014, certain members of the Company's management team purchased a total of 10,871 shares of Series D-1 Convertible Preferred Stock for \$3.7232 per share for gross proceeds of \$40,475 as approved by the Board of Directors on January 27, 2014.

13 Subsequent Events

On October 4, 2015, the Company entered into a definitive agreement to sell the Company to AtriCure, Inc. Upfront consideration of approximately \$8 million in cash and 3.7 million shares of AtriCure, Inc. common stock, and is subject to working capital and other customary adjustments. Subject to meeting certain additional milestones throughout the five year period beginning January 1, 2016 the Company will be eligible to receive additional consideration in the form of earn out payments. Earn out payments may be paid in a combination of cash and additional AtriCure, Inc. common stock.

The Company evaluated subsequent events and transactions for potential recognition or disclosure in the financial statements through June 17, 2016, the date the financial statements were available to be issued. All subsequent events requiring recognition and disclosure have been incorporated into these financial statements.

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REPORT OF INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS

To the Board of Directors of nContact Surgical, Inc. and Subsidiaries:

We have audited the accompanying financial statements of **nContact Surgical, Inc. and Subsidiaries** (a Delaware corporation) and subsidiaries, which comprise the consolidated balance sheets as of December 31, 2014 and 2013, and the related statements of operations, changes in stockholders' equity, and cash flows for the years then ended, and the related notes to the consolidated financial statements.

Management's responsibility for the financial statements

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's responsibility

Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of nContact Surgical, Inc. and Subsidiaries as of December 31, 2014, and 2013, and the results of its operations and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

/s/ Grant Thornton LLP

Raleigh, North Carolina

July 13, 2015

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Table of Contents**nContact Surgical, Inc. and Subsidiaries****Consolidated Balance Sheets**

December 31	2014	2013
	\$	\$
Assets		
Current assets:		
Cash and cash equivalents	13,179,157	3,578,376
Accounts receivable	1,070,543	1,648,980
Short-term investments, net		4,494,764
Prepaid expenses	129,604	180,405
Inventory, net	776,279	706,996
Other current assets	10,707	8,930
Total current assets	15,166,290	10,618,451
Deposits	7,433	7,433
Long-term deferred financing costs	447,034	
Property and equipment, net	331,557	280,262
	15,952,314	10,906,146
Liabilities and stockholders equity		
Current liabilities:		
Accounts payable	162,329	354,034
Accrued expenses	394,023	353,952
Deferred revenue	333,879	
Current portion of deferred rent	8,036	9,518
Current portion of notes payable	6,754	6,496
Total current liabilities	905,021	724,000
Long-term portion of notes payable and debt	9,667,645	7,844
Warrant liability	511,709	202,007
Total liabilities	11,084,375	933,851
Commitments and contingencies (Note 5)		
Stockholders equity:		
Common stock, \$0.00001 par value; 20,696,284 shares authorized; 2,113,218 shares and 2,094,385 shares issued and outstanding as of December 31, 2014 and 2013, respectively	21	21
Series A convertible preferred stock, \$0.00001 par value; 2,755,372 shares designated, issued and outstanding as of December 31, 2014 and 2013 (aggregate liquidation preference of \$8,517,791)	8,517,792	8,187,792
Series B convertible preferred stock, \$0.00001 par value; 2,619,080 shares designated, issued and outstanding as of December 31, 2014 and 2013 (aggregate	11,240,544	10,790,544

liquidation preference of \$11,240,544)		
Series C convertible preferred stock, \$0.00001 par value; 2,282,981 shares designated, issued and outstanding as of December 31, 2014 and 2013 (aggregate liquidation preference of \$12,135,658)	12,135,658	11,625,658
Series C-1 convertible preferred stock, \$0.00001 par value; 1,289,210 shares designated; 1,285,181 shares issued and outstanding as of December 31, 2014 and 2013 (aggregate liquidation preference of \$6,428,643)	6,428,643	6,141,543
Series D convertible preferred stock, \$0.00001 par value; 4,464,726 shares designated; 4,357,291 shares issued and outstanding as of December 31, 2014 and 2013 (aggregate liquidation preference of \$20,281,245)	20,288,957	19,315,573
Series D-1 convertible preferred stock, \$0.00001 par value; 3,491,620 shares designated; 3,001,937 shares and 2,991,066 shares issued and outstanding as of December 31, 2014 and 2013 (aggregate liquidation preference of \$12,331,211)	12,320,451	11,583,747
Accumulated deficit	(66,064,127)	(57,672,583)
Total stockholders equity	4,867,939	9,972,295
	15,952,314	10,906,146

Table of Contents**nContact Surgical, Inc. and Subsidiaries****Consolidated Statements of Operations**

For the years ended December 31	2014	2013
	\$	\$
Revenue	8,190,868	8,370,610
Cost of sales	1,268,456	1,082,254
Gross margin	6,922,412	7,288,356
Operating expenses:		
General and administrative	2,873,353	2,406,866
Research and development	751,832	720,796
Quality assurance and regulatory	1,302,930	1,064,463
Medical education	2,357,027	2,056,496
Sales and marketing	4,767,636	4,140,082
Total operating expenses	12,052,778	10,388,703
Operating loss	(5,130,366)	(3,100,347)
Other income (expense):		
Interest (expense) income	(140,410)	32,336
Other income Insurance proceeds		223,836
Change in fair value of preferred stock warrants	23,743	(32,008)
Net loss	(5,247,033)	(2,876,183)

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nContact Surgical, Inc. and Subsidiaries

Consolidated Statements of Changes in Stockholders' Equity

Preferred Stock

Amount \$	Series B		Series C		Series C-1		Series D		Series D-1	
	Shares	Amount \$	Shares	Amount \$	Shares	Amount \$	Shares	Amount \$	Shares	Amount \$
857,792	2,619,080	10,340,544	2,282,981	11,115,658	1,285,181	5,854,444	4,338,759	18,260,894		
							18,532	68,998	2,991,066	11,050,000
330,000		450,000		510,000		287,099		973,039		500,000
								12,642		1,000,000
187,792	2,619,080	10,790,544	2,282,981	11,625,658	1,285,181	6,141,543	4,357,291	19,315,573	2,991,066	11,580,000
									10,871	4,000,000
330,000		450,000		510,000		287,100		973,384		670,000
										2,000,000
517,792	2,619,080	11,240,544	2,282,981	12,135,658	1,285,181	6,428,643	4,357,291	20,288,957	3,001,937	12,320,000

Table of Contents**nContact Surgical, Inc. and Subsidiaries****Consolidated Statements of Cash Flows**

For the years ended December 31	2014	2013
	\$	\$
Cash flows from operating activities:		
Net loss	(5,247,033)	(2,876,183)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation	178,968	150,323
Disposal of fixed assets	10,986	62,221
Loss on disposal	(5,523)	
Bridge note interest		19,623
Bridge note interest, cancellation		(41,905)
Change in fair value of preferred stock warrants	(23,743)	32,008
Stock-based compensation	97,711	72,639
Amortization of deferred financing costs	12,466	
Changes in operating assets and liabilities:		
Accounts receivable	578,437	(497,065)
Prepaid expenses	50,801	(120,952)
Deposits and other assets	(1,777)	42,852
Inventory, net	(69,283)	(96,224)
Accounts payable	(191,705)	114,520
Accrued expenses	40,071	(123,277)
Deferred revenue	333,879	
Deferred rent	(1,482)	(7,134)
Net cash used in operating activities	(4,237,227)	(3,268,554)
Cash flows from investing activities:		
Purchase of property and equipment	(235,726)	(224,194)
Net purchases, renewals, and maturities of short-term investments		(5,150,195)
Sales of short-term investments	4,494,764	655,431
Net cash provided by (used in) investing activities	4,259,038	(4,718,958)
Cash flows from financing activities:		
Proceeds from bridge notes		3,000,000
Proceeds from sale of common stock	4,491	16,049
Sale of preferred stock, net of issuance costs	40,475	7,694,104
Payments on notes payable	(6,496)	(6,248)
Proceeds from debt financing	10,000,000	
Payment of deferred financing costs	(459,500)	
Net cash provided by financing activities	9,578,970	10,703,905

Net increase in cash and cash equivalents	9,600,781	2,716,393
Cash and cash equivalents, beginning of year	3,578,376	861,983
Cash and cash equivalents, end of year	13,179,157	3,578,376
Supplemental disclosure of cash flow information		
Cash paid for interest	54,402	779
Warrant liability	333,445	
Non-cash conversion of long term debt to equity		3,433,751
Non-cash accretion of preferred stock	25,823	27,706

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nContact Surgical, Inc. and Subsidiaries

Notes to consolidated financial statements

1 Organization and Continuing Operations

nContact Surgical, Inc. and Subsidiaries (the Company) is a Delaware corporation operating in Morrisville, North Carolina. The Company was incorporated on July 15, 2004, with a focus on providing cardiac tissue coagulation devices used during surgical procedures. The Company has sales of its product in the United States and Europe.

On March 5, 2014, the Company entered into a Membership Interest Purchase Agreement with Paul Funkhouser for the purchase of 100% of the membership interests of Shared Healthcare Metrics, LLC for a nominal amount. The Board of Directors approved this purchase agreement by written consent as it deemed it to be in the best interest of the Company.

Since inception, the Company has devoted substantially all of its efforts towards developing and marketing its technology. For the year ended December 31, 2014, the Company has consolidated negative cash flows from operations of \$4,237,227 and a consolidated loss from operations of \$5,247,033. As of December 31, 2014, the Company has a consolidated accumulated deficit of \$66,064,127. Management's plans include increasing sales, continued development and marketing of its product and diligent management of expenses. In 2014, the Company entered into a Loan and Security agreement for \$20,000,000 to provide additional capital for the company. In 2013, the Company raised additional funding from current and new investors in order to continue to execute its business plan until such time the Company can generate operating revenue in excess of operating expenditures. The financial statements presented herein do not include any adjustments relating to the recoverability of assets and classification of liabilities that might be necessary should the Company be unable to continue as a going concern.

Principles of Consolidation

The consolidated financial statements include the accounts of the Company and its wholly owned subsidiary, Shared Healthcare Metrics, LLC. All significant intercompany accounts and transactions have been eliminated in consolidation.

2 Summary of Significant Accounting Policies

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Significant estimates include the allowance for doubtful accounts, deferred revenue, inventory allowances, deferred tax asset valuation allowances, valuation of stock warrant liabilities and stock-based compensation expense. Actual results could differ from those estimates.

Cash and Cash Equivalents

The Company considers all highly liquid investments with an original maturity of three months or less from the balance sheet date to be cash equivalents.

Short-term Investments

The Company considers all investments with a maturity of more than three months but less than a year from the balance sheet date as short term investments. Short-term investments consist of government and corporate bonds.

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The investments are classified as trading securities, and are carried at cost plus unrealized gain or loss which approximates fair value. Unrealized holding gains and losses are included in earnings. For purpose of determining realized gains and losses, the cost of securities sold is based on specific identification.

Credit Risk

Financial instruments, which potentially subject the Company to concentrations of credit risk, consist principally of cash and cash equivalents, short-term investments and accounts receivables. Cash deposits are held in federally insured financial institutions in the United States of America. However, at times, deposits have exceeded the amount insured by the Federal Deposit Insurance Corporation.

Accounts Receivable

Accounts receivable, which subject the Company to credit risk, are stated at net realizable value. Sales are made to hospitals located throughout the United States and Europe. Accounts receivable are typically due within 30 days for domestic customers and due within 60-90 days for foreign customers. Amounts outstanding for longer than the payment terms are considered past due. At each balance sheet date, the Company assesses its need for an allowance for potential losses in the collection of its accounts receivable. Estimated losses are based on experience and management's opinion of the current status of existing receivables. For the years ended December 31, 2014 and 2013, the Company determined that no allowance was necessary.

Inventory

Inventory is comprised of parts used in the Company's coagulation devices or sold as an accessory to the devices. Inventory is valued at lower of cost or market and is accounted for on a first-in, first-out (FIFO) basis. The evaluation of inventory obsolescence involves an approach that incorporates both recent historical information and management estimates of trends. As of December 31, 2014 and 2013, the Company maintained reserves of \$25,000 to reduce its inventory to net realizable value.

Deferred Financing Costs

Deferred financing costs and represent the direct costs of entering into the Company's Loan and Security Agreement in November 2014 detailed further in Note 9. These costs are amortized as interest expense using the effective interest method over the term of the loan and are presented on the balance sheet, net of accumulated amortization,

Property and Equipment

Property and equipment consists primarily of laboratory, production and computer equipment, which are recorded at cost and depreciated using the straight-line method over their estimated useful lives, ranging from three to ten years.

Repairs and maintenance costs are expensed as incurred.

Revenue Recognition

The Company enters into sales arrangements that may provide for multiple deliverables to a customer. Sales of medical equipment primarily consists of disposable surgical ablation devices. Generators and other capital equipment (such as the Company's monitors, and laptops) are loaned at no cost to direct customers that use the Company's disposable products. Depreciation of such assets is included in cost of revenue. The Company identifies all goods

and/or services that are to be delivered separately under a sales arrangement and allocates revenue to each deliverable based on relative fair values. Fair values are generally established based on the prices

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charged when sold separately by the Company. In general, revenues are separated between medical equipment, and the loaning of the required generators and laptops. The allocated revenue for each deliverable is then recognized ratably based on relative fair values of the components of the sale. Revenue from the sales of the disposal devices is recognized when a sale is made to a customer, in accordance with shipping terms, which is generally upon the shipment of goods. Shipping and handling costs are included within cost of sales in the statements of operations. Shipping costs billed to customers are included in revenues.

Additionally, the Company provides customers with a generator on loan and defers a portion of the revenue from the related generators based on the relative fair value of the equipment lease. The generator lease agreements typically are for a one year period, after which, the lease will auto-renew for an additional period of one year or until the Customer returns the generator. As the lease period of the generator is not a fixed term, the Company utilizes an assumption regarding the average number of auto renewals based on historical data. This assumption is then used to estimate the fair value of the loaned generator based on the estimated lease period. This deferred lease revenue is recognized ratably, on a straight-line basis, over the abovementioned estimated lease period.

Revenues and accounts receivable from individual customers that are equal to or greater than 10% of revenues or accounts receivable are as follows:

	2014		2013	
	Percent	Percent	Percent	Percent
	Revenue	Accounts Receivable	Revenue	Accounts Receivable
Customer A	*	*	*	11%
Customer B	*	*	*	11%
Customer C	*	*	*	11%
Customer D	*	*	*	11%
Customer E	*	11%	*	*

* Less than 10%

Sales Tax

Sales taxes and other taxes collected from customers and remitted to governmental authorities are presented on a net basis and, as such, are excluded from revenues.

Stock-based Compensation

Stock-based compensation cost is measured at the grant date based on the fair value of the award and is recognized as an expense over the requisite service period, which is the vesting period. Stock-based compensation costs for stock options are recognized on a straight-line basis.

The fair value of options granted is estimated on the date of grant using the Black-Scholes-Merton option pricing model based on the assumptions in the table below.

	2014	2013
Expected dividend yield	0.00%	0.00%
Weighted average expected stock price volatility	91.5%	97.3%
Range of expected stock price volatility	29% to 206%	54% to 118%
Weighted average risk-free interest rate	0.40%	0.20%
Range of risk-free interest rate	0.40%	0.20%
Expected life of options	2 years	2 years

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The expected life of the options is based on evaluations of historical and expected future employee exercise behavior. The risk-free interest rate is based on the U.S. Treasury rates at the date of grant with maturity dates approximately equal to the expected life at the grant date. Volatility is based on the historical volatility of several public entities that are similar to the Company, as the Company does not have sufficient historical transactions of its own shares on which to base expected volatility.

Restricted Stock

As needed, the Company will grant restricted common stock to executives and consultants. These shares vest over specified time periods. With these agreements, the Company has the option to repurchase any unvested shares upon termination of the executive or consulting agreement.

An executive of the Company purchased 35,000 shares of restricted common stock during 2006 at \$0.20 per share. As of the purchase date of the shares, 50% of the shares vested immediately, with the remaining to vest ratably over 32 months. As of December 31, 2014, all shares purchased were fully vested. This executive also purchased 29,000 shares of restricted common stock during 2007 at \$0.20 per share. The shares vest ratably over 28 months. As of December 31, 2014, all shares purchased were fully vested. In 2008, this executive purchased 160,469 shares of restricted common stock that were granted in 2007 at \$0.21 per share. As of the purchase date, approximately 96,300 shares vested immediately with the rest to vest upon completion of milestones established in Series C-1. As of December 31, 2014, none of these milestones had been achieved. In 2011, this executive purchased 343,829 shares of restricted common stock that were granted as stock options in 2010 at \$0.24 per share, then modified and exercised early into restricted common stock. One-fourth of the shares will vest one year after vesting commencement and the remainder will vest at the rate of 1/48 at the end of each month thereafter. As of December 31, 2014 all shares were vested.

Consultants of the Company purchased 75,000 shares of restricted common stock during 2007 at \$0.21 per share. As of December 31, 2011, all shares purchased were fully vested. In 2008, a consultant purchased 10,000 shares of restricted common stock at \$0.371 per share. As of December 31, 2014, all shares purchased were fully vested. In 2010, a consultant purchased 60,000 shares of restricted common stock at \$0.29 per share. As of December 31, 2014, all shares purchased were fully vested.

Research and Development

The Company expenses research and development costs as incurred. These costs primarily consist of salaries, consulting fees, development materials and supplies directly involved in the research and development of new technology. Research and development costs totaled \$751,832 and \$720,796 for the years ended December 31, 2014 and 2013, respectively, and are shown as research and development expenses in the accompanying statements of operations.

Quality Assurance and Regulatory

Quality assurance and regulatory costs include direct costs associated with personnel performing quality control testing, including salary and benefit expenses. This function includes ongoing quality control testing, regulatory and compliance audits, verification and sterilization testing of products under development, and ongoing costs associated with clinical studies support. Quality assurance and regulatory costs totaled \$1,302,930 and \$1,064,463 for the years ended December 31, 2014 and 2013, respectively, and are shown as quality assurance and regulatory expenses in the accompanying statements of operations.

Medical Education

Medical education costs include direct costs associated with personnel performing training and coaching of physicians on the proper use of the Company's technology. These costs consist primarily of salaries and benefits,

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travel and physician consulting fees. Medical education costs totaled \$2,357,027 and \$2,056,496 for the years ended December 31, 2014 and 2013, respectively, and are shown as medical education expenses in the accompanying statements of operations.

Sales and Marketing

Sales and marketing costs include direct costs associated with personnel performing sales activities of the product and also marketing of the product and procedure through avenues like tradeshows. Sales and marketing also includes the costs that Shared Healthcare Metrics, LLC incurred in 2014. These costs totaled \$415,627 for the year ended December 31, 2014. Sales and marketing costs totaled \$4,352,009 and \$4,140,082 for the years ended December 31, 2014 and 2013, respectively, and are shown as sales and marketing expenses in the accompanying statements of operations.

Income Taxes

The Company accounts for income taxes using an asset and liability method, which requires the recognition of deferred tax assets or liabilities for the temporary differences between financial reporting and tax bases of the Company's assets and liabilities, and for tax carryforwards at enacted statutory tax rates in effect for the years in which the differences are expected to reverse. The effect on deferred taxes of a change in tax rates is recognized in income in the period that includes the enactment date. In addition, valuation allowances are established when necessary to reduce deferred tax assets to the amounts expected to be realized.

Impairment of Long-lived Assets

The Company evaluates the recoverability of its property and equipment and other assets on an annual basis or more frequently if certain events occur that indicate impairment. The Company assesses long-lived assets for impairment by comparing net book value of such assets to the estimated future undiscounted cash flows attributable to such assets. Accordingly, when indicators of impairment are present, the Company evaluates the carrying value of these assets in relation to the operating performance of these assets and future undiscounted cash flows expected to result from the use of these assets. No such impairments have been recognized during the years ended December 31, 2014 or 2013.

3 Inventory, Net

Inventories consist of the following at December 31:

	2014	2013
	\$	\$
Raw materials	380,028	453,815
Work in process	7,843	65,273
Finished goods	413,408	212,908
Less reserve	(25,000)	(25,000)
Total inventory, net	776,279	706,996

Table of Contents**4 Property and Equipment**

Property and equipment, and related useful lives for depreciation purposes, consist of the following at December 31:

	2014	2013	Useful Life
	\$	\$	
Computer and phone equipment	396,139	392,076	3 to 10 years
Automobile	34,429	34,429	5 years
Software	177,994	168,717	3 years
Furniture and equipment	121,880	121,880	7 years
Production and laboratory equipment	1,129,127	923,066	3 years
Leasehold improvements	19,231	13,891	5 years
Less Accumulated depreciation	(1,547,243)	(1,373,797)	
Property and equipment, net	331,557	280,262	

Depreciation expense for the years ended December 31, 2014 and 2013, was \$178,968 and \$150,323, respectively.

5 Commitments and Contingencies**Leases**

On May 1, 2014 the company signed a Second Lease Amendment to extend the lease on the Company's facilities until December 31, 2019. The second Amendment contains an option to extend the term for a period of five years. Rent expense is recognized on a straight-line basis and for the years ended December 31, 2014 and 2013, was \$88,975 and \$88,297, respectively. In addition to the lease of the Company's facilities, the Company also has operating leases for various pieces of office equipment which are included in the minimum lease payments for the years 2015, 2016 and 2017 in the table below. Future minimum lease payments under the leases through the date of termination are as follows:

Future Minimum Lease Payments	2014
	\$
2015	100,048
2016	102,872
2017	103,808
2018	94,310
2019	96,875
Total	497,913

6 Income Taxes

No provision or benefit for federal or state income taxes has been recorded as the Company has incurred net operating losses since inception.

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Significant components of the Company's deferred income tax assets and liabilities at December 31, 2014 and 2013, consisted of the following:

	2014	2013
	\$	\$
Deferred income tax assets:		
Net operating loss carryforwards	17,462,046	15,668,873
Contribution carryforwards	1,887	3,295
Start-up and organization costs	316,531	359,827
Fixed assets	16,095	9,565
Inventory reserve	9,411	9,361
Deferred revenue	140,571	
Debt discount	(135)	
Deferred rent	3,025	3,564
	17,949,431	16,054,485
Less Valuation allowance	(17,949,431)	(16,054,485)
Net deferred income tax assets		

At December 31, 2014 and 2013, the Company provided a full valuation allowance against its net deferred income tax assets as management has assessed that the realization of these benefits could not be reasonably assured.

As of December 31, 2014, the Company had federal and state net operating loss carryforwards of approximately \$46,618,400 and \$42,963,300, respectively. These federal and state net operating loss carryforwards begin to expire in 2025. The utilization of the net operating loss and tax credit carryforwards may be subject to limitation under the rules regarding a change in stock ownership as determined by the Internal Revenue Code, and state and foreign tax laws. Section 382 of the Internal Revenue Code of 1986, as amended, imposes annual limitations on the utilization of net operating loss (NOL) carryforwards, other tax carryforwards, and certain built-in losses upon an ownership change as defined under that section. In general terms, an ownership change may result from transactions that increase the aggregate ownership of certain stockholders in the Company's stock by more than 50 percentage points over a three year testing period (Section 382 Ownership Change). If the Company has undergone a Section 382 Ownership Change, an annual limitation would be imposed on certain of the Company's tax attributes, including NOL and capital loss carryforwards, and certain other losses, credits, deductions or tax basis. As of December 31, 2014 the Company has not completed a formal study to determine whether there are 382 limitations that apply.

Taxes computed at the statutory federal income tax rate of 34% are reconciled to the provision for income taxes for the year ended December 31, 2014 and 2013, as follows:

	2014		2013	
	Amount	Percentage of	Amount	Percentage of
	\$	Pretax	\$	Pretax
		Earnings		Earnings

United States federal income tax at statutory rate	(1,783,991)	-(34.0)%	(977,902)	(34.0)%
State income taxes (net of federal benefit)	(176,055)	-(3.6)%	(99,010)	(3.4)%
Non-deductible expenses	63,376	1.3%	76,781	2.7%
Change in valuation reserves	1,894,946	36.3%	1,072,461	37.3%
Other	1,724	0.0%	(72,330)	(2.5)%

Provision for income taxes

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The Company files income tax returns in the U.S. federal jurisdiction and various state jurisdictions. With few exceptions, including any state or local jurisdiction where a return may not have been filed, the Company is no longer subject to U.S. federal, state and local, or non-U.S. income tax examinations by tax authorities for years before 2009.

The Company previously adopted the standard regarding the accounting for uncertainty in income taxes which establishes the criterion that an individual tax position has to meet some or all of the benefits of that position to be recognized in the Company's financial statements. The difference between the tax benefit recognized in the financial statements for a position in accordance with this standard and the tax benefit claimed in the tax return is referred to as an unrecognized tax benefit. In connection with the adoption of this standard, the Company noted no such differences. During the years ended December 31, 2014 and 2013, the Company recognized no interest or penalties. The Company had no interest or penalties accrued at December 31, 2014 and 2013.

7 Notes Payable

In March 2011, the Company entered into a note payable for \$34,429 with a financial institution in order to purchase a vehicle. The note payable requires monthly payments of principal and interest totaling \$578 payable per month through February 2016. The interest rate for the note payable is fixed at 3.9% for a period of 5 years. Future principal payments of long-term borrowings at December 31, 2014 are as follows:

	Amount
	\$
2015	6,754
2016	1,090
	7,844

8 Line of Credit

On July 17, 2009, the Company signed a Loan and Security Agreement with a commercial bank for a \$500,000 revolving line of credit. Effective July 29, 2013, the Company signed a Seventh Amendment to the Loan and Security Agreement to increase the line to \$1,000,000 and to extend the maturity date. As of December 31, 2014 and 2013, the Company has not drawn any amounts on this line of credit. The line matures on July 29, 2015 and allows for the Company to borrow up to 80% of eligible accounts receivable at an interest rate of prime plus 1.5%, with a minimum rate of 5.5%. The line is collateralized by any and all properties, rights and assets of the Company. In connection with this revolving line of credit, the Company issued 4,029 shares of Series C-1 Preferred Stock warrants with an exercise price of \$3.7232 per share which were recorded for \$13,166 based on the fair value of the warrants.

In connection with the Loan and Security Agreement, the Company is required to maintain all banking relationships and has provided a blanket lien on all assets including intellectual property. Additionally, the Company must meet monthly and quarterly covenants as set forth by the Bank. The Bank and the Company agreed to Amendments and Forbearance agreements whereby the bank has provided forbearance for covenants that have been defaulted and amendments to covenants. Previous agreements are as follows: First Amendment and Forbearance to the Loan and Security Agreement dated April 26, 2010, Second Amendment dated September 17, 2010, Third Amendment dated March 22, 2011, and Fourth Amendment dated July 25, 2011, and the Fifth Amendment and Default Waiver on May 22, 2012, and the Sixth Amendment and Default Waiver on February 26, 2013. In October 2014, the Company terminated the Loan and Security Agreement. At the time of the termination the Company had no outstanding draws

against the line of credit.

9 Debt

On November 10, 2014, the Company signed a Loan and Security Agreement with Hercules Technology Growth Capital, Inc for a \$20,000,000 term loan. The first tranche of \$10,000,000 was funded on the closing date. The

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loan has an interest only period for the first twenty-one months followed by equal installments of principal and interest. The last payment is a balloon payment on the maturity date of November 1, 2018. The rate of interest is the greater of 9.25% or 9.25% plus prime minus 5.5%. The loan is collateralized by any and all properties, rights and assets of the Company

Upon meeting performance milestones, the Company can access two additional tranches of \$5,000,000 each. The second tranche milestone is the achievement of not less than 85% of projected conservative revenues for the six months ended June 30, 2015. The second tranche is available from July 5, 2015 through August 15, 2015. The third tranche of \$5,000,000 is available from April 5, 2016 through May 15, 2016 if the Company meets revenue milestones of not less than 85% of Conservative Revenue Projections for the twelve months ended March 31, 2016.

In connection with this Agreement, the Company issued 201,440 shares of Series D-1 Preferred Stock warrants with an exercise price of \$3.7232 per share which were recorded for \$333,445 based on the fair value of the warrants at the grant date. The holders of the warrants have the option to exercise the warrants for Series D-1 Stock, which is mandatorily redeemable for common stock if certain conditions are met. Accordingly, the initial fair value of the warrants was recorded as an accrued warrant liability on the consolidated balance sheets with a debt discount recorded offsetting the warrant liability. The warrants are marked to market at the end of the reporting period using the Black-Scholes valuation model. At December 31, 2014, all outstanding warrants were adjusted to the fair value of \$511,709 as determined by the Company, resulting in a gain of \$23,743, which has been reflected in Change in fair value of preferred stock warrants on the consolidated statement of operations. If the company borrows on the third tranche, an additional warrant of 67,147 shares of Series D-1 Preferred Stock warrants with an exercise price of \$3.7232, or the most recent equity round pricing will be issued.

10 Note and Warrant Financing

In connection with the Note and Warrant Financing completed on February 10, June 4, and August 16, 2010, the Company issued 107,435 warrants, which granted investors the right to purchase shares of the capital stock into which the Notes converted. The Notes were converted into Series D Preferred Shares at \$3.7232 per share on October 20, 2010 and November 5, 2010, for \$4,154,081, including accrued and unpaid interest. The warrants are exercisable immediately and expire on May 1, 2017. All warrants remain outstanding as of December 31, 2014.

11 Stockholders Equity and Convertible Preferred Stock

At December 31, 2014, the Company was authorized to issue 37,599,273 shares of capital stock (\$0.00001 par value), of which 20,696,284 shall be designated Common Stock and 16,902,989 shall be designated Preferred Stock (2,755,372 shares of Series A Preferred Stock, 2,619,080 shares of Series B Preferred Stock, 2,282,981 shares of Series C Preferred Stock, 1,289,210 shares of Series C-1 Preferred Stock, 4,464,726 shares of Series D Preferred Stock and 3,491,620 shares of Series D-1 Preferred Stock).

Convertible Preferred Stock

On January 31, 2013, certain members of the Company's management team purchased a total of 18,532 shares of Series D Convertible Preferred Stock for \$3.7232 per share for gross proceeds of \$68,998 as approved by the Board of Directors on December 5, 2012. On March 1, May 1, and June 3, 2013 a total of 2,991,066 shares of Series D-1 Preferred Stock were issued at \$3.7232 per share for gross proceeds, net of Bridge Note Conversions of \$7,702,576. In connection with these stock issuances, \$77,470 of issuance costs were incurred in 2013. On January 31, 2014, certain members of the Company's management team purchased a total of 10,871 shares of Series D Convertible Preferred Stock for \$3.7232 per share for gross proceeds of \$40,475 as approved by the Board of Directors on January 27, 2014.

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The following is a summary of the rights, preferences and terms of the Company's common and preferred stock from the Company's Amended Certificate of Incorporation:

Dividends

The holders of the Series A, B, C, C-1, D, Combined Preferred Stock shall be entitled to receive cumulative dividends in preference to any dividend on common stock or other preferred stock at the rate of 6% annually (as adjusted for any stock dividends, combinations or splits with respect to such shares) per annum, payable out of funds legally available therefore, when and if declared by the board of directors. Upon failure of the Company to redeem any shares of Series A, B, C, C-1, D, Combined Preferred Stock the annual dividend rate on such Series A, B, C, C-1, D, Combined Preferred Stock shall thereafter be increased to 12%.

Upon conversion of a share of Series D, Combined Preferred Stock, Series C-1 Preferred Stock, Series C Preferred Stock, Series B Preferred Stock or Series A Preferred Stock, except for mandatory conversion, all respective accrued or declared and unpaid dividends on such share shall be cancelled and shall not thereafter be payable.

Liquidation

In the event of (a) any liquidation, dissolution or winding up of the Company, whether voluntary or involuntary or (b) a sales, transfer or other disposition of all or substantially all the assets of the Company (a Liquidating Event), each holder of Series D Combined Preferred Stock then outstanding shall be paid, before any payment shall be made in respect of the Company's Series C-1 Preferred Stock, Series C Preferred Stock, Series B Preferred Stock, Series A Preferred Stock or Common Stock, an amount equal to the Series D Combined Original Price per share, plus accrued or declared dividends that are then unpaid for each share of Series D Combined Preferred Stock then held by them (Series D Combined Preference Amount). If, upon the occurrence of a Liquidating Event, the assets and funds thus distributed among the holders of the Series D Combined Preferred Stock shall be insufficient to permit the payment of the full Series D Combined Preference Amount, then the entire assets and funds of the Company legally available for distribution shall be distributed pro-rata among the holders of the Series D Combined Preferred Stock in proportion to the Series D Combined Preference Amount each such holder is otherwise entitled to receive.

In the event of (a) any liquidation, dissolution or winding up of the Company, whether voluntary or involuntary or (b) a sales, transfer or other disposition of all or substantially all the assets of the Company (a Liquidating Event), each holder of Series C-1 Preferred Stock then outstanding shall be paid, after payment in full of the Series D Combined Preference Amount, before any payment shall be made in respect of the Company's Series C Preferred Stock, Series B Preferred Stock, Series A Preferred Stock or Common Stock, an amount equal to the Series C-1 Original Price per share, plus accrued or declared dividends that are then unpaid for each share of Series C-1 Preferred Stock then held by them (Series C-1 Preference Amount). If, upon the occurrence of a Liquidating Event, the assets and funds thus distributed among the holders of the Series C-1 Preferred Stock shall be insufficient to permit the payment of the full Series C-1 Preference Amount, then the remaining assets and funds of the Company legally available for distribution shall be distributed pro-rata among the holders of the Series C-1 Preferred Stock in proportion to the Series C-1 Preference Amount each such holder is otherwise entitled to receive.

In the event of (a) any liquidation, dissolution or winding up of the Company, whether voluntary or involuntary or (b) a sales, transfer or other disposition of all or substantially all the assets of the Company (a Liquidating Event), each holder of Series C Preferred Stock then outstanding shall be paid, after payment in full of the Series D Combined Preference Amount and the Series C-1 Preference Amount, before any payment shall be made in respect of the Company's Series B Preferred Stock, Series A Preferred Stock or Common Stock, an amount equal to the Series C Original Price per share, plus accrued or declared dividends that are then unpaid for each share of Series C Preferred

Stock then held by them (Series C Preference Amount). If, upon the occurrence

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of a Liquidating Event, the assets and funds thus distributed among the holders of the Series C Preferred Stock shall be insufficient to permit the payment of the full Series C Preference Amount, then the remaining assets and funds of the Company legally available for distribution shall be distributed pro-rata among the holders of the Series C Preferred Stock in proportion to the Series C Preference Amount each such holder is otherwise entitled to receive.

In the event of (a) any liquidation, dissolution or winding up of the Company, whether voluntary or involuntary or (b) a sales, transfer or other disposition of all or substantially all the assets of the Company (a Liquidating Event), each holder of Series B Preferred Stock then outstanding shall be paid, after payment in full of the Series D Combined Preference Amount, Series C-1 Preference Amount and Series C Preference Amount, before any payment shall be made in respect of the Company's Series A Preferred Stock or Common Stock, an amount equal to the Series B Original Price per share, plus accrued or declared dividends that are then unpaid for each share of Series B Preferred Stock then held by them (Series B Preference Amount). If, upon the occurrence of a Liquidating Event, the assets and funds thus distributed among the holders of the Series B Preferred Stock shall be insufficient to permit the payment of the full Series B Preference Amount, then the remaining assets and funds of the Company legally available for distribution shall be distributed pro-rata among the holders of the Series B Preferred Stock in proportion to the Series B Preference Amount each such holder is otherwise entitled to receive.

In the event of (a) any liquidation, dissolution or winding up of the Company, whether voluntary or involuntary or (b) a sales, transfer or other disposition of all or substantially all the assets of the Company (a Liquidating Event), each holder of Series A Preferred Stock then outstanding shall be paid, after payment in full of the Series D Combined Preference Amount, Series C-1 Preference Amount, Series C Preference Amount and Series B Preference Amount, before any payment shall be made in respect of the Company's Common Stock, an amount equal to the Series A Original Price per share, plus accrued or declared dividends that are then unpaid for each share of Series A Preferred Stock then held by them (Series A Preference Amount). If, upon the occurrence of a Liquidating Event, the assets and funds thus distributed among the holders of the Series A Preferred Stock shall be insufficient to permit the payment of the full Series A Preference Amount, then the remaining assets and funds of the Company legally available for distribution shall be distributed pro-rata among the holders of the Series A Preferred Stock in proportion to the Series A Preference Amount each such holder is otherwise entitled to receive.

After payment to the holders of the Series D Combined Preferred Stock, Series C-1 Preferred Stock, Series C Preferred Stock, Series B Preferred Stock and Series A Preferred Stock of the full Series D Combined Preference Amount, Series C-1 Preference Amount, Series C Preference Amount, Series B Preference Amount and Series A Preference Amount, respectively, the entire remaining assets and funds of the Company legally available for distribution, if any, shall be distributed ratably among the holders of the Company's Series D Combined Preferred Stock, Series C-1 Preferred Stock, Series C Preferred Stock, Series B Preferred Stock, Series A Preferred Stock and Common Stock as if such shares of Series D Combined Preferred Stock, Series C-1 Preferred Stock, Series C Preferred Stock, Series B Preferred Stock and Series A Preferred Stock had been converted voluntarily into Common Stock immediately prior to such Liquidating Event.

Redemption

At any time following the third anniversary of the original issue date of the Series D-1 Preferred Stock, to the extent that all shares Series D Combined have not previously been redeemed or converted, the holders of at least sixty percent (60%) of the shares of Series D Combined Preferred Stock voting together as a separate class and on an as-converted to Common Stock basis, may require the Company to redeem all of the then outstanding shares of Series D Preferred Stock in three equal installments. The Company shall redeem such shares of Preferred Stock at a redemption price equal to the greater of (1) the Series D Combined Preference Amount as of the applicable redemption date or (2) the fair market value of the Series D Combined Preferred Stock (fair market value to be based

on a valuation of the Company as determined by an independent third-party appraiser). The

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Company shall not redeem, purchase or acquire for value any shares of Series C-1 Preferred Stock, Series C Preferred Stock, Series B Preferred Stock or Series A Preferred Stock (or any other capital stock) unless it first redeems all Series D Combined Preferred Stock.

At any time following the later of the third anniversary of the original issue date of the Series C-1 Preferred Stock, and the date upon which all shares of Series D Combined Preferred Stock have been redeemed or converted, to the extent that all shares of Series C-1 Preferred Stock have not been previously redeemed or converted, the holders of at least sixty percent (60%) of the shares of Series C-1 Preferred Stock then outstanding may require the Company to redeem all of the then outstanding shares of Series C-1 Preferred Stock in three equal installments. The Company shall redeem such shares of Preferred Stock at a redemption price equal to the greater of (1) the Series C-1 Preference Amount as of the applicable redemption date or (2) the fair market value of the Series C-1 Preferred Stock (fair market value to be based on a valuation of the Company as determined by an independent third-party appraiser). The Company shall not redeem, purchase or acquire for value any shares of Series C Preferred Stock, Series B Preferred Stock or Series A Preferred Stock (or any other capital stock other than Series D Combined Preferred Stock) unless it first redeems all Series C-1 Preferred Stock.

At any time following the later of the fourth anniversary of the original issue date of the Series C Preferred Stock and the date upon which all shares of Series D Combined Preferred Stock and Series C-1 Preferred Stock have been redeemed or converted, to the extent that all shares of Series C Preferred Stock have not been previously redeemed or converted, the holders of at least fifty-seven percent (57%) of the shares of Series C Preferred Stock then outstanding may require the Company to redeem all of the then outstanding shares of Series C Preferred Stock in three equal installments. The Company shall redeem such shares of Preferred Stock at a redemption price equal to the greater of (1) the Series C Preference Amount as of the applicable redemption date or (2) the fair market value of the Series C Preferred Stock (fair market value to be based on a valuation of the Company as determined by an independent third-party appraiser). The Company shall not redeem, purchase or acquire for value any shares of Series B Preferred Stock or Series A Preferred Stock (or any other capital stock other than Series D Combined Preferred Stock and Series C-1 Preferred Stock) unless it first redeems all Series C Preferred Stock.

At any time following the later of the fifth anniversary of the original issue date of the Series B Preferred Stock and the date upon which all shares of Series D Combined Preferred Stock, Series C-1 Preferred Stock and Series C Preferred Stock have been redeemed or converted, to the extent that all shares of Series B Preferred Stock have not been previously redeemed or converted, the holders of a majority of the shares of Series B Preferred Stock then outstanding may require the Company to redeem all of the then outstanding shares of Series B Preferred Stock in three equal installments. The Company shall redeem such shares of Preferred Stock at a redemption price equal to the greater of (1) the Series B Preference Amount as of the applicable redemption date or (2) the fair market value of the Series B Preferred Stock (fair market value to be based on a valuation of the Company as determined by an independent third-party appraiser). The Company shall not redeem, purchase or acquire for value any shares of Series A Preferred Stock (or any other capital stock other than Series D Combined Preferred Stock, Series C-1 Preferred Stock and Series C Preferred Stock) unless it first redeems all Series B Preferred Stock.

At any time following the later of the fifth anniversary of the original issue date of the Series A Preferred Stock, and the date upon which all shares of Series D Combined Preferred Stock, Series C-1 Preferred Stock, Series C Preferred Stock and Series B Preferred Stock have been redeemed or converted, to the extent that all shares of Series A Preferred Stock have not been previously redeemed or converted, the holders of at least two-thirds of the Series A Preferred Stock then outstanding may require the Company to redeem all of the then outstanding shares of Series A Preferred Stock in three equal installments. The Company shall redeem such shares of Preferred Stock at a redemption price equal to the greater of (1) the Series A Preference Amount as of the applicable redemption date or (2) the fair market value of the Series A Preferred Stock (fair market value to be based on a valuation of the Company as

determined by an independent third-party appraiser). The Company shall not redeem, purchase or acquire for value any other capital stock other than Series D Combined Preferred Stock,

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Series C-1 Preferred Stock, Series C Preferred Stock and Series B Preferred Stock unless it first redeems all Series A Preferred Stock.

At the redemption date of each series of preferred stock, all dividends shall cease to accrue and all rights of the holders of such shares shall cease.

Conversion

Each share of Series D, D-1 Combined Preferred Stock, C-1 Preferred Stock, Series C Preferred Stock, Series B Preferred Stock and Series A Preferred Stock shall be convertible at the option of the holder thereof, into fully paid and nonassessable shares of Common Stock of the Company. The number of shares of Common Stock into which each share of the Series D Combined Preferred Stock may be converted shall be determined by dividing the Series D Combined Preference Amount in effect at the time of the conversion by the Series D Combined Conversion Price in effect at the time of the conversion. The Series D Combined Conversion Price shall be equal to \$3.7232 per share, subject to appropriate adjustment in the event of any stock dividend, stock split, combination or other similar recapitalization affecting such shares. The number of shares of Common Stock into which each share of the Series C-1 Preferred Stock may be converted shall be determined by dividing the Series C-1 Preference Amount in effect at the time of the conversion by the Series C-1 Conversion Price in effect at the time of the conversion. The Series C-1 Conversion Price shall be equal to \$3.7232 per share, subject to appropriate adjustment in the event of any stock dividend, stock split, combination or other similar recapitalization affecting such shares. The number of shares of Common Stock into which each share of the Series C Preferred Stock may be converted shall be determined by dividing the Series C Preference Amount in effect at the time of the conversion by the Series C Conversion Price in effect at the time of the conversion. The Series C Conversion Price shall be equal to \$3.7232 per share, subject to appropriate adjustment in the event of any stock dividend, stock split, combination or other similar recapitalization affecting such shares. The number of shares of Common Stock into which each share of the Series B Preferred Stock may be converted shall be determined by dividing the Series B Preference Amount in effect at the time of the conversion by the Series B Conversion Price in effect at the time of the conversion. The Series B Conversion Price shall be equal to \$2.8636 per share, subject to appropriate adjustment in the event of any stock dividend, stock split, combination or other similar recapitalization affecting such shares. The number of shares of Common Stock into which each share of the Series A Preferred Stock may be converted shall be determined by dividing the Series A Preference Amount in effect at the time of the conversion by the Series A Conversion Price in effect at the time of the conversion. The Series A Conversion Price shall be \$1.9961 per share, subject to appropriate adjustment in the event of any stock dividend, stock split, combination or other similar recapitalization affecting such shares.

No fractional shares of Common Stock shall be issued upon conversion of shares of Preferred Stock. The Company shall pay a cash adjustment equal to the fair market value of such fractional share as determined in good faith by the board of directors. The Company shall pay any and all issue and other taxes that may be payable due to conversion of Preferred Stock.

The Company shall keep available, out of its authorized but unissued Common Stock, solely for the purpose of effecting the conversion of Preferred Stock, the full number of shares of Common Stock deliverable upon the conversion of all Preferred Stock from time-to-time outstanding.

In the case of any consolidation or merger, each share of Preferred Stock shall be convertible into the kind and amount of shares of stock that a holder of Common Stock of the Company deliverable upon conversion of Preferred Stock would have been entitled upon such consolidation or merger.

Mandatory Conversion

Each share of Preferred Stock shall automatically be converted into shares of Common Stock at the then applicable conversion rate upon the occurrence of a closing of an underwritten public offering pursuant to an

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effective registration statements under the Securities Act of 1933, as amended, covering the offer and sale of Common Stock for more than \$50,000,000 (net of underwriters discounts and commissions), and the price per share to the public is not less than five times the Series D Combined Original Price, subject to adjustments for any stock dividends or stock splits. In addition, each share of Preferred Stock shall automatically be converted into shares of Common Stock at the then applicable conversion rate upon the affirmative vote of the holders of at least sixty percent (60%) of the then-outstanding shares of Series D Combined, voting together as a separate class on an as-converted to Common Stock basis.

Voting

The holder of each share of Series D Combined Preferred Stock, Series C-1 Preferred Stock, Series C Preferred Stock, Series B Preferred Stock and Series A Preferred Stock shall be entitled to the number of votes equal to the number of shares of Common Stock into which such share of Series D Combined Preferred Stock, Series C-1 Preferred Stock, Series C Preferred Stock, Series B Preferred Stock and Series A Preferred Stock could then be converted and shall have voting rights and powers equal to the voting rights and powers of the Common Stock. Fractional votes resulting from this shall be reduced to the nearest whole number.

The holder of each share of Series D Combined Preferred Stock is offered additional protective provisions above other holders of Preferred Stock. The protective provisions call for at least sixty percent (60%) approval of the then outstanding shares of Series D Combined Preferred Stock to take any of the following actions: (i) effect the sale, lease, license or other disposition of all or substantially all of the Company's assets; (ii) authorize any merger, consolidation or share exchange between the Company and another entity; (iii) redeem, purchase or otherwise acquire for value any shares in the Company, or declare or pay any dividends or distributions on any shares other than Series D Combined Preferred Stock; (iv) authorize any shares of capital stock superior to or on parity with the Series D Combined Preferred Stock or any securities exchangeable, convertible or exercisable for such stock; (v) alter or change any of the powers, preferences, privileges or rights of any series of Preferred Stock or change the total number of authorized shares in the Company; (vi) reclassify any shares of stock to be on parity with Series D Combined Preferred Stock; (vii) amend, repeal or add to any provision of the Company's Certificate of Incorporation or the Company's Bylaws; (viii) authorize the voluntary or involuntary liquidation, dissolution or winding up of the Company; (ix) authorize any public offering other than a Qualified Public Offering; (x) authorize any borrowing by the Company in excess of \$100,000 or pledge any of the Company's assets as collateral, (xi) cause the Company to become subject to any agreement that would restrict the Company's performance of its obligations under the Certificate of Incorporation or Bylaws, (xii) authorize the Company to own, purchase or acquire any stock, obligations, or securities of, or any interest in, or make contribution to, any other person or entity not used in the ordinary course of business; (xiii) pursue any change in the fundamental business of the Company as it currently exists; and (xiv) change the size of the Company's Board of Directors.

Carrying Value

The Preferred Stock was originally recorded at the net proceeds received by the Company at issuance. The difference between the net proceeds and the total redemption price is being accreted using the straight-line method (which approximates the amount that would be calculated under the effective interest method) over the period from issuance until the redemption date. As of December 31, 2014 cumulative accrued dividends were \$17,717,314.

12 Stock-based Compensation

On May 25, 2005, the Company adopted the 2005 Stock Plan (the Plan), as amended during 2008, 2010 and 2013 to increase the number of authorized shares. The Plan provides for the granting of up to 3,197,104 stock options to

employees, directors and consultants of the Company. The board of directors shall determine the exercise price, term and dates of the exercise of all options at their grant date. Absent a public market price for the

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Company's common stock, the board of directors, based on an independent valuation and other factors, will determine the estimated fair market value of the common stock. The Company issues new shares of common stock upon exercise of stock options. Under the Company's stock option plan, options become vested over four years and expire not more than 10 years after the date of grant.

The Company recognizes expense related to the fair value of the stock-based compensation awards, including employee stock options.

Compensation cost for stock-based employee compensation was \$97,711 and \$72,639 for the years ended December 31, 2014 and 2013, respectively.

The following table summarizes the Company's stock option activity:

	Number of Shares	Weighted Average Exercise Price \$
Options outstanding at December 31, 2012	1,323,635	0.25
Granted	785,168	0.42
Exercised	(63,870)	0.25
Forfeited	(69,085)	0.25
Options outstanding at December 31, 2013	1,975,848	0.32
Granted	248,000	0.45
Exercised	(18,833)	0.24
Forfeited	(136,867)	0.37
Options outstanding at December 31, 2014	2,068,148	0.33
Options exercisable at December 31, 2014	1,244,322	0.30

Intrinsic value represents the total pre-tax intrinsic value, which is computed based on the difference between the option exercise price and the fair value of the Company's common stock at December 31, 2014. This amount changes based on the fair value of the Company's stock. The total intrinsic value of options exercised during 2014 and 2013 was de minimus.

The following table summarizes information about the Company's stock options at December 31, 2014:

Exercise Price	Options Outstanding	Weighted Average Remaining Contractual Life (Years)	Options Exercisable	Weighted Average Remaining Contractual Life (Years)
\$0.380	65,000	0.87	65,000	0.87
\$0.210	15,000	2.14	15,000	2.14
\$0.371	216,258	3.90	216,257	3.90

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\$0.290	159,211	4.98	159,211	4.98
\$0.240	568,029	6.23	532,878	5.99
\$0.220	166,000	7.72	98,729	7.52
\$0.440	718,650	8.71	157,247	8.15
\$0.450	160,000	9.83		9.80
	2,068,148		1,244,322	

The weighted average exercise price of total options exercisable at December 31, 2014 and 2013, was \$0.30 and \$0.28, respectively. The weighted average remaining contractual life of exercisable options at December 31, 2014 and 2013, was 5.58 and 5.85 years, respectively.

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The Company will record \$119,015 of future compensation cost for stock-based employee compensation over a weighted average period of approximately two years.

The weighted average grant date fair value of options granted during the fiscal years ended December 31, 2014 and 2013, was \$0.15 and \$0.17 per share, respectively.

The following table summarizes the status of the Company's non-vested shares as of December 31, 2014, and changes during the fiscal year ended December 31, 2014:

	Number of Shares	Weighted Average Grant Date Fair Value \$
Options non-vested at December 31, 2013	920,869	0.17
Granted	248,000	0.21
Exercised	(18,833)	0.13
Vested	(354,478)	0.16
Forfeited	(136,867)	0.18
 Options non-vested at December 31, 2014	 658,691	 0.19

13 Fair Value Measurements

ASC 820, Fair Value Measurements and Disclosures, establishes a framework for measuring fair value. That framework provides a hierarchy that prioritizes the inputs to valuation techniques used to measure fair value.

That hierarchy gives highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements).

The three levels of the fair value hierarchy under ASC 820 are described below:

Level 1 Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets.

Level 2 Inputs to the valuation methodology include:

Quoted prices for similar assets or liabilities in active markets;

Quoted prices for identical or similar assets or liabilities in inactive markets;

Inputs other than quoted prices that are observable for the asset or liability; and

Inputs derived principally from/corroborated by observable market data by correlation or other means.

Level 3 Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

The fair value measurement level of an asset or liability within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

Changes in economic conditions or valuation techniques may require the transfer of financial instruments from one fair value to another. In such instances, the transfer is reported at the beginning of the reporting period. For the fiscal years ended December 31, 2014 and 2013, there were no transfers in and out of Level 1, 2, or 3.

The following table sets presents the Company's investments, within the fair value hierarchy, as of December 31, 2013. The Company's preferred stock warrants were measured based on unobservable inputs, and thus is considered a Level 3 financial instrument. The Company analyzes financial instruments with features of both liabilities and equity under ASC 480, *Distinguishing Liabilities from Equity*.

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The following table sets presents the Company's investments, within the fair value hierarchy, as of December 31, 2013.

	Level 1	Level 2	Level 3	Total
	\$	\$	\$	\$
Assets:				
Investments		4,494,764		4,494,764
Liabilities:				
Warrant liability			202,007	202,007

The following table sets presents the Company's investments, within the fair value hierarchy, as of December 31, 2014.

	Level 1	Level 2	Level 3	Total
	\$	\$	\$	\$
Liabilities:				
Warrant liability			511,709	511,709

14 Employee Benefit Plan

Effective January 5, 2006, the Company began a 401(k) profit sharing plan, which allows eligible employees to defer up to 100% of their compensation, up to the applicable limit. The Company, at its discretion, may make matching contributions. However, no matching contributions were made during 2014 or 2013.

15 Related-party Transactions

The Company has amounts payable to employees for reimbursement of expenses incurred in the normal course of business. The total amounts payable to employees, as included in accounts payable, as of December 31, 2014 and 2013, was \$140 and \$145, respectively. Additionally, other current assets in the accompanying balance sheets include an employee receivable of \$1,650 and \$4,469 at December 31, 2014 and 2013, respectively.

The Company entered into a Membership Interest Purchase Agreement on March 5, 2014 for the purchase of 100% of the membership interests of Shared Healthcare Metrics, LLC. The Board of Directors approved this purchase agreement by written consent as it deemed it to be in the best interest of the Company.

On January 31, 2014, certain members of the Company's management team purchased a total of 10,871 shares of Series D-1 Convertible Preferred Stock for \$3.7232 per share for gross proceeds of \$40,475 as approved by the Board of Directors on January 27, 2014.

The Company entered into a consulting agreement with Shared Healthcare Metrics, LLC on July 8, 2013, whose owner is a related party to a member of the Company's management team. The total amounts paid in 2013, to Shared Healthcare Metrics, LLC, for consulting services was \$40,253. At December 31, 2013, the total amounts payable to Shared Healthcare Metrics, LLC for consulting services and reimbursement of expenses, as included in accounts payable was \$9,187.

16 Subsequent Events

On January 31, 2015, the Company entered into a separation agreement with a former member of management. Under this agreement, the Board of Directors approved for a severance package consisting of one year's salary and accelerated vesting of options granted as part of that agreement.

On March 19, 2015 the Company sold the vehicle under financing through the Note Payable. The company received \$12,000, for the sale of the vehicle and paid off the remaining balance on the Note.

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On April 1, 2015 the Board of Directors approved the 6th Amendment to the Certificate of Incorporation, which increased shares allowed for Common Stock. The Board of Directors recommended and Stockholders consented to an amendment and increase to the 2005 Stock Plan of 720,000 additional shares.

The Company evaluated subsequent events and transactions for potential recognition or disclosure in the financial statements through July 13, 2015, the date the financial statements were available to be issued. All subsequent events requiring recognition and disclosure have been incorporated into these financial statements.

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UNAUDITED PRO FORMA CONDENSED COMBINED FINANCIAL INFORMATION

The following unaudited pro forma condensed combined financial information is presented to give effect to the acquisition of nContact Surgical, Inc. (nContact) by AtriCure, Inc. (AtriCure), or the Acquisition, as announced on October 4, 2015 and subsequently closed on October 13, 2015.

The unaudited pro forma condensed consolidated financial information was prepared using (i) the audited consolidated financial statements of AtriCure for the year ended December 31, 2015 incorporated by reference elsewhere in this prospectus, (ii) the unaudited consolidated financial information of nContact prior to acquisition (the period January 1, 2015 through October 13, 2015), and (iii) the preliminary purchase price allocation of the nContact acquisition, a summary of which is included in Note 2 to this unaudited pro forma condensed consolidated financial information, and (iv) the assumptions and adjustments described in the notes accompanying this unaudited pro forma condensed consolidated financial information.

The nContact acquisition was accounted for using the acquisition method of accounting. Under the acquisition method of accounting, the purchase price is required to be allocated to the underlying tangible and intangible assets acquired and liabilities assumed based on their respective fair values. Any purchase price in excess of the fair value of the acquired tangible and intangible assets is required to be allocated to goodwill in our condensed consolidated balance sheet as of the end of the period in which the acquisition closed. We performed appraisals necessary to derive preliminary fair values of the tangible and intangible assets acquired and liabilities assumed, the amounts of assets and liabilities arising from contingencies, and the amount of goodwill or bargain purchase gain to be recognized as of the acquisition date, and the related preliminary allocation of the purchase price. Such values arising from appraisals are preliminary estimates and subject to adjustment as the accounting for the acquisition is completed.

This unaudited pro forma condensed consolidated financial information should be read in conjunction with the historical consolidated audited and unaudited financial statements of AtriCure and nContact and the related audited and unaudited notes thereto included elsewhere in this prospectus.

Table of Contents**AtriCure, Inc. and nContact Surgical, Inc.****Condensed combined statement of operations and pro forma adjustments****For the year ended December 31, 2015 (AtriCure, Inc.) and****Pre-Acquisition period January 1, 2015 through October 13, 2015 (nContact Surgical, Inc.)****(Unaudited)**

(amounts in thousands, except for per share data)

	Historical			
	AtriCure, Inc.	nContact Surgical, Inc. g)	Pro Forma Adjustments	Pro Forma Combined
Revenue	\$ 129,755	\$ 8,127	\$ (57) a)	\$ 137,825
Cost of Revenue	36,880	1,064	457 b)	38,401
Gross profit	92,875	7,063	(514)	99,424
Operating expenses:				
Research and development expenses	25,742	2,407	245 c)	28,394
Selling, general and administrative expenses	93,853	13,645	(6,107) d)	101,391
Total operating expenses	119,595	16,052	(5,862)	129,785
Income (loss) from operations	(26,720)	(8,989)	5,348	(30,361)
Other income (expense):				
Interest expense	(292)	(960)	960 e)	(292)
Interest Income	190	15		205
Other	(354)	47		(307)
Income (loss) before income tax expense	(27,176)	(9,887)	6,308	(30,755)
Income tax expense	(36)			(36)
Net loss	\$ (27,212)	\$ (9,887)	\$ 6,308	\$ (30,791)
Basic and diluted net loss per share	\$ (0.97)			\$ (0.99)
Weighted average shares outstanding - basic and diluted	28,058		2,974 f)	31,032

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(amounts in thousands)

Note 1. Basis of Presentation

The historical financial information has been adjusted to give pro forma effect to events that are (i) directly attributable to the Acquisition and related transactions, (ii) factually supportable, and (iii) with respect to the unaudited pro forma condensed combined statements of continuing operations, expected to have a continuing impact on the combined results. The pro forma adjustments are based on estimates of the fair value and useful lives of the assets acquired and liabilities assumed and have been prepared to illustrate the estimated effect of the Acquisition and certain other adjustments. The final determination of the purchase price allocation will be based on the fair values of assets acquired and liabilities assumed as of the date the Acquisition closes, and could result in significant changes to the unaudited pro forma condensed combined financial information, including goodwill.

This unaudited pro forma condensed consolidated financial information should be read in conjunction with the historical consolidated audited and unaudited financial statements of AtriCure and nContact and the related audited and unaudited notes thereto included or incorporated by reference elsewhere in this prospectus.

Note 2. nContact Acquisition

On October 13, 2015, AtriCure completed its acquisition of nContact, pursuant to the Merger Agreement, dated as of October 4, 2015. Parties to the Merger Agreement, in addition to AtriCure and nContact, include Portal Merger Sub, Inc., a Delaware corporation and wholly owned Subsidiary of AtriCure (Merger Sub), Second Portal Merger Sub, LLC, a Delaware limited liability company and wholly-owned Subsidiary of AtriCure (Second Merger Sub), and WYRP Stockholder Services, LLC, a North Carolina limited liability company and representative of the nContact equity holders. Under the terms of the Merger Agreement, nContact merged with and into Merger Sub and Merger Sub survived as a wholly owned subsidiary of AtriCure (the Merger). Immediately following the Merger, Merger Sub then merged with and into Second Merger Sub, with the Second Merger Sub surviving as a wholly owned subsidiary of AtriCure.

The aggregate consideration paid at closing to nContact's former stockholders in the Merger was paid through the issuance of 3,757 shares of AtriCure common stock and cash of \$7,581. Additional consideration, contingent upon the achievement of specified clinical and revenue targets, may be paid in cash and AtriCure common stock at various dates specified by the Merger Agreement, however, the Agreement limits the total number of shares of AtriCure common stock issued in connection with the acquisition to 5,660. Additional consideration includes up to \$50,000 based on the achievement of certain clinical milestones prior to December 31, 2020, and 1.5 times nContact revenues in excess of specified revenue targets in calendar years 2016 through 2019. Although the cash paid at acquisition was subject to adjustment for net working capital balances outside of a specified range, no such adjustment was made as a result of the final net working capital delivered.

The total purchase price of the acquisition is as follows:

Fair value of shares issued at closing	\$ 69,054
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Cash	7,581
Fair value of contingent consideration	40,207

Total Purchase Price \$ 116,842

Preliminary Purchase Price Allocation

Pursuant to the Company's business combinations accounting policy, the total purchase price for nContact was allocated to the preliminary net tangible and intangible assets based upon their preliminary fair values as set forth below. The excess of the preliminary purchase price over the preliminary net tangible assets and preliminary intangible assets was recorded as goodwill.

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The Company's preliminary purchase price allocation for nContact is as follows:

Fair Value of Acquired Working Capital	\$ 460
Adjustment to recognize assets and liabilities at fair value	
Property & Equipment	311
Identified intangible assets	
SUBTLE access technology (estimated 5 year life)	2,179
IPR&D (indefinite life until completion)	44,021
Goodwill	69,871

Total Purchase Price	\$ 116,842
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The preliminary purchase price allocation is based on preliminary estimates and assumptions, and is subject to change during the purchase price measurement period as the Company finalizes the accounting for the acquisition. Deferred tax assets and liabilities were also recognized at acquisition date for the future tax consequences attributable to differences between the above financial statement carrying amounts of existing assets and liabilities and their respective tax bases and acquired operating loss and tax credit carryforwards of nContact. The Company recorded a full valuation allowance against the net deferred tax assets at acquisition.

Note 3. Notes to Unaudited Pro Forma Condensed Combined Statement of Continuing Operations for the year ended December 31, 2015

The unaudited pro forma condensed statement of continuing operations above reflects the following specific adjustments:

a) Revenue		
<i>To conform nContact revenue recognition related to loaner generators to AtriCure policy.</i>		\$ (57)
b) Cost of Revenue		
<i>To conform treatment of nContact product inventory issued to sales representatives to AtriCure policy of expensing such amounts.</i>		\$ 3
<i>Reclassification of certain excise taxes to cost of revenue from selling, general and administrative expense to conform to AtriCure presentation.</i>		140
<i>Reclassification of depreciation expense from selling, general and administrative expenses to conform to AtriCure presentation.</i>		108
<i>Reclassification of personnel expenses to cost of revenue from selling, general and administrative expenses to conform to AtriCure presentation.</i>		35
<i>Reclassification of personnel expenses to cost of revenue from research and development expense to conform to AtriCure presentation.</i>		113
<i>Reclassification of laboratory and warehouse facilities costs to cost of revenue from selling, general and administrative expenses to conform to AtriCure presentation.</i>		58
<i>Total adjustments to cost of revenue</i>		\$ 457
c) Research and Development Expenses		\$ 17

<i>Reclassification of depreciation expense from selling, general and administrative expenses to conform to AtriCure presentation.</i>	
<i>Reclassification of personnel expenses from research and development to selling, general and administrative expenses to conform to AtriCure presentation.</i>	(37)
<i>Reclassification of personnel expenses to research and development expense from cost of revenue to conform to AtriCure presentation.</i>	(113)
<i>Reclassification of laboratory and facility costs to research and development expenses from selling, general and administrative expenses to conform to AtriCure presentation.</i>	33

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	<i>To record amortization expense for newly identified nContact intangible assets for the pre-acquisition period January 1, 2015 through October 13, 2015.</i>	345
	<i>Total adjustments to research and development expenses</i>	\$ 245
d)	Selling, General and Administrative Expenses	
	<i>Reclassification of certain excise taxes to cost of revenue from selling, general and administrative expense to conform to AtriCure presentation.</i>	\$ (140)
	<i>Reclassification of depreciation expense from selling, general and administrative expenses to conform to AtriCure presentation.</i>	(125)
	<i>Reclassification of personnel expenses to cost of revenue from selling, general and administrative expenses to conform to AtriCure presentation.</i>	(35)
	<i>Reclassification of personnel expenses from research and development to selling, general and administrative expenses to conform to AtriCure presentation.</i>	37
	<i>Reclassification of laboratory and facility costs to cost of revenue and research and development expenses from selling, general and administrative expenses to conform to AtriCure presentation.</i>	(91)
	<i>To remove transaction costs incurred by AtriCure and nContact directly related to the acquisition and included in the historical statement of operations.</i>	(5,753)
	<i>Total adjustments to selling, general and administrative expenses</i>	\$ (6,107)
e)	Interest Expense	
	<i>To remove interest expense incurred on long term debt paid off in connection with the acquisition of nContact.</i>	\$ 960
f)	Weighted-average shares outstanding - basic and diluted	
	<i>AtriCure shares issued to nContact shareholders as merger consideration, pro-rated for the pre-acquisition period January 1, 2015 through October 13, 2015.</i>	2,974

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g) nContact Surgical, Inc. Historical Results

nContact historical results represent the period prior to acquisition date October 13, 2015, and consist of the following:

	Historical nContact nine months ended 9/30/15	Historical nContact period 10/1/15 through 10/13/15	Total Historical nContact
Revenue	\$ 7,732	\$ 395	\$ 8,127
Cost of Revenue	1,011	53	1,064
Gross profit	6,721	342	7,063
Operating expenses:			
Research and development expenses	1,637	770	2,407
Selling, general and administrative expenses	8,802	4,843	13,645
Total operating expenses	10,439	5,613	16,052
Loss from operations	(3,718)	(5,271)	(8,989)
Other income (expense):			
Interest expense	(928)	(32)	(960)
Interest income	13	2	15
Other	46	1	47
Loss before income tax expense	(4,587)	(5,300)	(9,887)
Income tax expense			
Net loss	\$ (4,587)	\$ (5,300)	\$ (9,887)

The historical nContact information for the nine months ended September 30, 2015 was derived from the unaudited condensed consolidated financial statements of nContact included within this filing. The historical nContact information for the period of October 1, 2015 through October 13, 2015 reflects management's compilation of such results from the internally prepared nContact financial statements and has not been audited or reviewed by an independent registered public accounting firm.

Note 4. Pro Forma Net Loss per Common Share

The pro forma basic and diluted net loss per common share is based on the weighted average number of common shares of AtriCure's common stock outstanding during the period as adjusted to reflect the shares of common stock issued as consideration in the nContact acquisition. The diluted weighted average number of common shares does not include outstanding stock options as their inclusion would be anti-dilutive.

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2,500,000 Shares

Common Stock

Prospectus Supplement

J.P. Morgan

Piper Jaffray

Canaccord Genuity

Leerink Partners

Stifel

, 2018