UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 14A

Proxy Statement Pursuant to Section 14(a) of the Securities Exchange Act of 1934 (Amendment No. __)

File	d by tl	ne Registrant ⊠				
File	d by a	Party other than the Registrant □				
Che	ck the	appropriate box:				
	C onfic Definit Definit	inary Proxy Statement lential, for Use of the Commission Only (as permitted by Rule 14a-6(e)(2)) tive Proxy Statement tive Additional Materials ing Material Pursuant to §14a-11(c) or Rule 14a-12				
		AtriCure, Inc. (Name of Registrant as Specified In Its Charter)				
D		(Name of Person(s) Filing Proxy Statement, if other than the Registrant)				
Pay	ment (of Filing Fee (Check the appropriate box):				
\boxtimes	No f	fee required				
	Fee	computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.				
	1.	Title of each class of securities to which transaction applies:				
	2.	Aggregate number of securities to which transaction applies:				
	3.	Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated and state how it was determined):				
	4.	Proposed maximum aggregate value of transaction:				
	5.	Total fee paid:				
	Fee	paid previously with preliminary materials.				
		ck box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting was paid previously. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its g.				
	1.	Amount previously paid:				
	2.	Form, Schedule or Registration Statement No.:				
	3.	Filing Party:				
	4.	Date Filed:				

*** Exercise Your Right to Vote ***

Important Notice Regarding the Availability of Proxy Materials for the Stockholder Meeting to Be Held on May 25, 2016.

ATRICURE, INC.

Meeting Information

Meeting Type: Annual Meeting For holders as of: April 1, 2016 Date: May 25, 2016 Time: 9:00 a.m. EDT

Date: May 25, 2016 Time: 9:00 a.m. EDT Location: Corporate Offices of AtriCure 7555 Innovation Way Mason, Ohio 45040

You are receiving this communication because you hold shares in the company named above.

This is not a ballot. You cannot use this notice to vote these shares. This communication presents only an overview of the more complete proxy materials that are available to you on the Internet. You may view the proxy materials online at www.proxyvote.com or easily request a paper copy (see reverse side).

We encourage you to access and review all of the important information contained in the proxy materials before voting.

See the reverse side of this notice to obtain proxy materials and voting instructions.

ATRICURE, INC. ATTN: JEANETTE YACUCCI 7555 INNOVATION WAY MASON, OH 45040

— Before You Vote —

How to Access the Proxy Materials

Proxy Materials Available to VIEW or RECEIVE:

PROXY STATEMENT ANNUAL REPORT

How to View Online:

How to Request and Receive a PAPER or E-MAIL Copy:

If you want to receive a paper or e-mail copy of these documents, you must request one. There is NO charge for requesting a copy. Please choose one of the following methods to make your request:

1) BY INTERNET: www.proxyvote.com 2) BY TELEPHONE: 1-800-579-1639

3) BY E-MAIL*: sendmaterial@proxyvote.com

* If requesting materials by e-mail, please send a blank e-mail with the information that is printed in the box marked by the arrow —>XXXX XXXX XXXX XXXX (located on the following page) in the subject line.

Requests, instructions and other inquiries sent to this e-mail address will NOT be forwarded to your investment advisor. Please make the request as instructed above on or before May 11, 2016 to facilitate timely delivery.

— How To Vote —

Please Choose One of the Following Voting Methods

Vote In Person: Many stockholder meetings have attendance requirements including, but not limited to, the possession of an attendance ticket issued by the entity holding the meeting. Please check the meeting materials for any special requirements for meeting attendance. At the meeting, you will need to request a ballot to vote these shares.

Vote By Mail: You can vote by mail by requesting a paper copy of the materials, which will include a proxy card.

E08263-P74246

Voting Items

THE BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" THE ELECTION OF DIRECTORS, "FOR" PROPOSAL 2, "FOR" PROPOSAL 3, "FOR" PROPOSAL 4 AND "FOR" PROPOSAL 5.

1. Authority to elect as Directors the following nine (9) nominees.

Nominees:

- Proposal to ratify the appointment of Delotte & Touche LLP as independent registered public accounting firm of the Company for the year ending December 31, 2016.
- Advisory vote on the compensation of our named executive officers as disclosed in the proxy statement for the 2016 Annual Meeting.
- Proposal to approve and adopt an amendment to AtriCure's Certificate of Incorporation to eliminate restrictions on removal of directors.
- Proposal to amend the AtriCure, Inc. 2014 Stock Incentive Plan to increase the number of authorized shares by 450,000 and re-approve its performance measures pursuant to Section 162(m) of the internal Revenue Code.

NOTE: Such other business as may properly come before the meeting or any adjournment thereof.

ATRICURE, INC. ATTN: JEANETTE YACUCCI 7555 INNOVATION WAY MASON, OH 45040

TO VOTE, MARK BLOCKS BELOW IN BILLE OR BLACK INK AS FOLLOWS:

VOTE BY INTERNET - www.proxyvote.com
Use the Internet to transmit your voting instructions and for electronic delivery of information up until 11:59 p.m. Eastern Time the day before the cut-off date or meeting date. Have your proxy card in hand when you access the web site and follow the instructions to obtain your records and to create an electronic voting instruction form.

ELECTRONIC DELIVERY OF FUTURE PROXY MATERIALS

If you would like to reduce the costs incurred by our company in mailing proxy materials, you can consent to receiving all future proxy statements, proxy cards and annual reports electronically via e-mail or the internet. To sign up for electronic delivery, please follow the instructions above to vote using the internet and, when prompted, indicate that you agree to receive or access proxy materials electronically in future years.

VOTE BY PHONE - 1-800-690-6903
Use any touch-tone telephone to transmit your voting instructions up until 11:59 p.m. Eastern Time the day before the cut-off date or meeting date. Have your proxy card in hand when you call and then follow the instructions.

VOTE BY MAIL
Mark, sign and date your proxy card and return it in the postage-paid
envelope we have provided or return it to Vote Processing, c/o Broadridge,
51 Mercedes Way, Edgewood, NY 11717.

		_			E08962-P74246	KEEP THIS PORTION FOR YOUR RECORD
	THIS PROX	Y C	ARD IS VA	ALID ONL	Y WHEN SIGNED AND DATED.	DETACH AND RETURN THIS PORTION ON
ATRICURE, INC.			Withhold		To withhold authority to vote for any individua	al .
THE BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" THE ELECTION OF DIRECTORS, "FOR" PROPOSAL 2, "FOR" PROPOSAL 3, "FOR" PROPOSAL 4 AND "FOR" PROPOSAL 5.			All	Except	nominee(s), mark "For All Except" and write th number(s) of the nominee(s) on the line below.	e
1.	Authority to elect as Directors the following nine (9) nominees.		0	0		
	Nominees:					•
	01) Michael H. Carrel 06) Elizabeth D. Krell, Ph.D. 02) Mark A. Collar 07) Mark R. Lanning 03) Scott W. Drake 08) Karen P. Robards 04) Michael D. Hooven 09) Robert S. White 05) Richard M. Johnston	For	Against	Abstain	THIS PROXY WILL BE VOTED AS DIRECTED OR, IF N DIRECTION IS INDICATED, WILL BE VOTED AS FOLI THE ELECTION OF THE NOMINATED DIRECTORS THE FLICTION OF THE APPOINTMENT OF DELOTTE; AS INDEPENDENT REGISTERED PUBLIC ACCOL FOR THE YEAR ENDED DECEMBER 31, 2016; APPROVAL OF THE COMPENSATION OF OUR NAMI	OWS: (1) FOR ; (2) FOR THE BUTTING FIRM (3) FOR THE
2.	Proposal to ratify the appointment of Deloitte & Touche LLP as independent registered public accounting firm of the Company for the year ending December 31, 2016.	0	0	0	OFFICERS AS DISCLOSED IN THE PROXY STAT THE 2016 ANNUAL MEETING; (4) FOR THE AP ADOPTION OF AN AMENDMENT TO ATRICURE'S OF INCORPORATION TO ELIMINATE RESTRICTIONS OF DIRECTORS; (5) FOR THE APPROVAL OF AN.	TEMENT FOR PROVAL AND C CERTIFICATE ON REMOVAL
3.	Advisory vote on the compensation of our named executive officers as disclosed in the proxy statement for the 2016 Annual Meeting.	0	0	0	TO THE ATRICURE, INC. 2014 STOCK INCENT INCREASE THE NUMBER OF AUTHORIZED SHARE AND RE-APPROVE ITS PERFORMANCE MEASURE	S BY 450,000 SS PURSUANT
4.	Proposal to approve and adopt an amendment to AtriCure's Certificate of Incorporation to eliminate restrictions on removal of directors.	0	0	0	TO SECTION 162(M) OF THE INTERNAL REVENUE O IN THE DISCRETION OF THE PROXY HOLDERS ON MATTERS AS MAY COME BEFORE THE MEETING.	SUCH OTHER
5.	Proposal to amend the AtriCure, inc. 2014 Stock Incentive Plan to increase the number of authorized shares by 450,000 and re-approve its performance measures pursuant to Section 162(m) of the Internal Revenue Code.	0	0	0	PLEASE SIGN, DATE AND PROMPTLY RETURN THIS ENCLOSED RETURN ENVELOPE, WHICH IS POSTA MAILED IN THE UNITED STATES.	
	address changes and/or comments, please check this box write them on the back where indicated.			0		
Please Indicate if you plan to attend this meeting.			0			
		Yes	No			
adn	TE: Please sign exactly as your name or names appear on th ninistrator, attorney, trustee or guardian, please give full title cer, giving full title as such. If signer is a partnership, please si	as su	ch. If the s	igner is a o	corporation, please sign full corporate name by du	g as executor, ily authorized
Sign	nature [PLEASE SIGN WITHIN BOX] Date				Signature (Joint Owners)	Date

Important Notice Regarding the Availability of Proxy Materials for the Annual Meeting: The Proxy Statement and Annual Report are available at www.proxyvote.com.

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ATRICURE, INC. 2016 ANNUAL MEETING OF STOCKHOLDERS THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS

The undersigned stockholder of AtriCure, Inc., a Delaware corporation, hereby acknowledges receipt of the Notice of Annual Meeting of Stockholders and Proxy Statement, each dated April 15, 2016, and hereby appoints Michael H. Carrel and M. Andrew Wade, or either of them, as proxies and attorneys-in-fact, with full power of substitution, on behalf and in the name of the undersigned to represent the undersigned at the 2016 Annual Meeting of Stockholders of AtriCure, Inc. to be held on May 25, 2016 at 9:00 a.m. (EDT) at AtriCure's offices located at 7555 Innovation Way, Mason, Ohio 45040, and at any postponement or adjournment thereof, and to vote all shares of common stock which the undersigned would be entitled to vote if then and there personally present, on the matters set forth on the reverse side and in their discretion with respect to such other business as may properly come before such Annual Meeting or at any postponement or adjournment thereof in accordance with and as described in the Notice and Proxy Statement for the Annual Meeting.

THIS PROXY WILL BE VOTED AS RECOMMENDED BY THE BOARD OF DIRECTORS UNLESS A CONTRARY CHOICE IS SPECIFIED.

PLEASE SIGN, DATE AND RETURN PROMPTLY IN THE ENCLOSED ENVELOPE.

Address Changes/Comments:		

(if you noted any Address Changes/Comments above, please mark corresponding box on the reverse side.)

(Continued and to be signed on the reverse side)