

AtriCure, Inc.  
Form S-8  
March 11, 2014

As filed with the Securities and Exchange Commission on March 11, 2014

Registration No. 333-

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

**FORM S-8**  
**REGISTRATION STATEMENT**  
***UNDER***  
***THE SECURITIES ACT OF 1933***

**ATRICURE, INC.**

**(Exact name of Registrant as Specified in its Charter)**

<b>Delaware</b>	<b>34-1940305</b>
<b>(State Or Other Jurisdiction</b>	<b>(IRS Employer</b>
<b>Of Incorporation Or Organization)</b>	<b>Identification Number)</b>
<b>6217 Centre Park Drive</b>	
<b>West Chester, OH 45069</b>	

**(513) 755-4100**

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

**2005 EQUITY INCENTIVE PLAN**

**(Full title of the Plan)**

**Michael H. Carrel**

**President and Chief Executive Officer**

**AtriCure, Inc.**

**6217 Centre Park Drive**

**West Chester, OH 45069**

**(513) 755-4100**

**(Name, address, including zip code, and telephone number, including area code, of agent for service)**

*Copy to:*

**F. Mark Reuter, Esq.**

**Keating Muething & Klekamp PLL**

**One East Fourth Street, Suite 1400**

**Cincinnati, Ohio 45202**

**(513) 579-6469**

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer

Accelerated filer

Non-accelerated filer  (Do not check if a smaller reporting company)

Smaller reporting company

**CALCULATION OF REGISTRATION FEE**

<b>Title of Class of Securities</b>	<b>Amount</b>	<b>Proposed Maximum Offering Price</b>	<b>Proposed Maximum Aggregate Offering Price</b>	<b>Amount of Registration Fee</b>
<b>To Be Registered</b>	<b>To Be Registered<sup>(1)</sup></b>	<b>Per Share</b>	<b>Price</b>	
Common Stock, \$0.001 par value	755,548 <sup>(2)</sup>	\$20.49 <sup>(3)</sup>	\$15,481,179 <sup>(3)</sup>	\$1,993.98

- (1) Includes such additional shares as may become issuable by reason of stock splits, stock dividends or similar transactions pursuant to Rule 416(a) under the Securities Act of 1933, as amended (the Securities Act ).
- (2) This Registration Statement registers an additional 755,548 shares issuable under our 2005 Equity Incentive Plan (the Plan ). We have previously registered 5,740,469 shares issuable under the Plan (Registration Statement Nos. 333-130983, 333-152014, 333-157972, 333-165781, 333-173203, 333-180037 and 333-187123).
- (3) Estimated solely for the purpose of calculating the registration fee in accordance with Rules 457(c) and (h) under the Securities Act and based upon the average of the high and low sales prices reported on The Nasdaq Global Market on March 7, 2014.

**EXPLANATORY NOTE**

Pursuant to General Instruction E of Form S-8, this registration statement on Form S-8 (the Registration Statement ) is being filed in order to register an additional 755,548 shares of the Registrant's Common Stock, par value \$0.001 per share, which are securities of the same class and relate to the same employee benefit plan, the AtriCure, Inc. 2005 Equity Incentive Plan (the Plan ), as those shares registered on the Registrant's registration statements on Form S-8 previously filed with the Commission on January 12, 2006 (Registration No. 333-130983), June 30, 2008 (Registration No. 333-152014), March 16, 2009 (Registration No. 333-157972), March 30, 2010 (Registration No. 333-165781), March 31, 2011 (Registration No. 333-173203), March 12, 2012 (Registration No. 333-180037) and March 8, 2013 (Registration No. 333-187123), each of which is hereby incorporated by reference. After giving effect to shares registered under this Registration Statement, the Registrant has registered 6,496,017 shares under the Plan.

**Item 8. Exhibits.**

<b>Exhibit No.</b>	<b>Description of Documents</b>
5.1	Opinion of Keating Muething & Klekamp PLL
23.1	Consent of Deloitte & Touche LLP
23.2	Consent of Keating Muething & Klekamp PLL (included in Exhibit 5.1)
24.1	Power of Attorney (included on the signature pages)

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**SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized in West Chester, Ohio, as of the 11th day of March, 2014.

ATRICURE, INC.

By: /s/ M. Andrew Wade  
M. Andrew Wade  
Vice President and Chief Financial  
Officer

KNOW ALL PERSONS BY THESE PRESENTS, that each individual whose signature appears below constitutes and appoints Michael H. Carrel and M. Andrew Wade, and each of them, his or her true and lawful attorneys-in-fact and agents, with full power of substitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Registration Statement, and to file the same, with all exhibits thereto and all documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or his or their substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated:

Signature	Title	Date
/s/ Michael H. Carrel	President, Chief Executive Officer and Director (Principal Executive Officer)	March 11, 2014
Michael H. Carrel		
/s/ M. Andrew Wade	Vice President and Chief Financial Officer (Principal Financial and Accounting Officer)	March 11, 2014
M. Andrew Wade		
/s/ Richard M. Johnston	Chairman of the Board of Directors	March 11, 2014
Richard M. Johnston		
/s/ Mark A. Collar	Director	March 11, 2014
Mark A. Collar		
/s/ Scott W. Drake	Director	March 11, 2014

Scott W. Drake

/s/ Donald C. Harrison

Director

March 11, 2014

Donald C. Harrison

/s/ Michael D. Hooven	Director	March 11, 2014
Michael D. Hooven		
/s/ Elizabeth D. Krell	Director	March 11, 2014
Elizabeth D. Krell		
/s/ Mark R. Lanning	Director	March 11, 2014
Mark R. Lanning		
/s/ Karen P. Robards	Director	March 11, 2014
Karen P. Robards		
/s/ Robert S. White	Director	March 11, 2014
Robert S. White		