SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

POST-EFFECTIVE AMENDMENT NO. 1 TO FORM S-3 REGISTRATION STATEMENT

UNDER THE SECURITIES ACT OF 1933

ATRICURE, INC.

(Exact name of Registrant as Specified in its Charter)

Delaware (State Or Other Jurisdiction Of Incorporation Or Organization)

company" in Rule 12b-2 of the Exchange Act.

7555 Innovation Way
Mason, Ohio 45040
(513) 755-4100
(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

34-1940305 (IRS Employer Identification Number)

F. Mark Reuter, Esq. Keating Muething & Klekamp PLL One East Fourth Street, Suite 1400 Cincinnati, Ohio 45202 Telephone: (513) 579-6469

Facsimile: (513) 579-6457 (Name, Address and Telephone Number of Agent for Service)

Approximate date of commencement of proposed sale to the public : From time to time after the effective date of this Registration Statement as determined by market conditions and other factors.
If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box. \Box
If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.
If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and ist the Securities Act registration statement number of the earlier effective registration statement for the same offering.
If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.
If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon the filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.
If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth

additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box. \Box

Large accelerated filer		Accelerated filer \Box
Non-accelerated filer		Smaller reporting company $\ \square$
		Emerging growth company $\ \Box$
	mpany, indicate by check mark if the registrant has elected not to use the extended transition ccounting standards provided pursuant to Section $7(a)(2)(B)$ of the Securities Act. \Box	period for complying with any

DEREGISTRATION OF SECURITIES

This Post-Effective Amendment relates to the Registration Statement on Form S-3 (Registration No. 333-212088) filed on June 17, 2016, pertaining to Debt Securities, Preferred Stock, Common Stock, Depositary Shares, Warrants, and Units of AtriCure, Inc.

The undersigned Registrant hereby removes and withdraws from registration all securities registered pursuant to this Registration Statement which remain unissued and unsold.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, and Rule 478 thereunder, the Registrant has duly caused this Post-Effective Amendment to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Mason, Ohio, as of the 1st day of March, 2019.

ATRICURE, INC.

By: /s/ M. Andrew Wade

M. Andrew Wade, Senior Vice President and Chief Financial Officer