AtriCure, Inc. Form 8-K November 17, 2011

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

PURSUANT TO SECTION 13 OR 15(d) of the

SECURITIES EXCHANGE ACT OF 1934

Date of Report (Date of earliest event reported): November 17, 2011

ATRICURE, INC.

(Exact name of registrant as specified in charter)

Delaware (State or other jurisdiction

of incorporation)

000-51470 (Commission

File Number)

34-1940305 (IRS Employer

Identification No.)

6217 Centre Park Drive

West Chester, OH45069(Address of principal executive offices)(Zip Code)Registrant s telephone number, including area code: (513) 755-4100

Not Applicable

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- " Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- " Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- " Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- " Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 8.01. Other Events.

On November 17, 2011, AtriCure, Inc. issued a press release announcing that it has closed enrollment in its DEEP AF feasibility trial. A copy of the press release is filed as Exhibit 99.1 to this Form 8-K and is incorporated herein by reference.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

No. <u>Description</u>

99.1 Press Release dated November 17, 2011

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

ATRICURE, INC.

Dated: November 17, 2011

By: /s/ Julie A. Piton Julie A. Piton Vice President, Finance and Administration and

Chief Financial Officer