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): July 21, 2006

AtriCure, Inc.

(Exact name of registrant as specified in charter)

Delaware (State or other jurisdiction

000-51470 (Commission File Number) 34-1940305 (IRS Employer

of incorporation)

Identification No.)

6033 Schumacher Park Drive

West Chester, OH (Address of principal executive offices)

45069 (Zip Code)

Registrant s telephone number, including area code: (513) 755-4100

Not Applicable

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

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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))

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Item 5.02. Departure of Directors or Principal Officers; Election of Directors; Appointment of Principal Officers.

On July 24, 2006, we announced that Thomas J. Etergino resigned as our Vice President and Chief Financial Officer. We expect Mr. Etergino to stay through August 18, 2006, at which point he will leave to pursue other endeavors. Until Mr. Etergino s successor is named, David J. Drachman, our President and Chief Executive Officer, will work with our controller to manage our finances. All finance functions will report directly to Mr. Drachman.

A copy of the press release announcing Mr. Etergino s resignation is attached as Exhibit 99.1 to this Form 8-K and is incorporated herein by reference in its entirety.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

No. Description

99.1 Press Release of AtriCure, Inc. dated as of July 24, 2006.

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.

By: /s/ David J. Drachman David J. Drachman President and Chief Executive Officer

Dated: July 24, 2006

EXHIBIT LIST

No.

DescriptionPress Release of AtriCure, Inc. dated as of July 24, 2006. 99.1