

Preiss Frederick  
Form 4  
June 16, 2011

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Preiss Frederick

(Last) (First) (Middle)

6217 CENTRE PARK DRIVE

(Street)

WEST CHESTER, OH 45069

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
AtriCure, Inc. [ATRC]

3. Date of Earliest Transaction (Month/Day/Year)  
06/14/2011

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)

Vice President Operations

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Ownership (Instr. 4)
			Code	V	Amount or Price		
Common Stock	06/14/2011		M		14,687 A \$ 9.5	38,687	D
Common Stock	06/14/2011		M		3,680 A \$ 5.6	42,367	D
Common Stock	06/14/2011		M		21,052 A \$ 11.63	63,419	D
Common Stock	06/14/2011		S		39,419 D \$ 14.07	24,000	D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474  
(9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)
				Code	V (A) (D)	Date Exercisable Expiration Date	Title Amount or Number of Shares
Stock Option (right to buy)	\$ 5.6	06/14/2011		M	3,680	02/17/2011 <sup>(2)</sup> 02/17/2020	Common Stock 3,680
Stock Option (right to buy)	\$ 9.5	06/14/2011		M	14,687	06/20/2008 <sup>(3)</sup> 06/20/2017	Common Stock 14,687
Stock Option (right to buy)	\$ 11.63	06/14/2011		M	21,052	06/03/2006 <sup>(4)</sup> 06/20/2017	Common Stock 21,052

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Preiss Frederick 6217 CENTRE PARK DRIVE WEST CHESTER, OH 45069			Vice President Operations	

## Signatures

/s/ Frederick C. Preiss 06/16/2011

\*\*Signature of Reporting Person Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

(1) This transaction was executed in multiple trades at prices ranging from \$14.00 to \$14.30 per share. The price reported above reflects the weighted average purchase price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.

(2) These options were granted on February 17, 2010 and are exercisable cumulatively at a rate of 25% on February 17, 2011 (one year from grant date), and the remaining 75% thereafter vests and is exercisable in equal monthly installments on the same day of the month over the following three years.

(3) These options were granted on June 20, 2007 and are exercisable cumulatively at a rate of 25% on June 20, 2008 (one year from grant date), and the remaining 75% thereafter vests and is exercisable in equal monthly installments on the same day of the month over the following three years.

(4) These options were granted on June 3, 2005 and are exercisable cumulatively at a rate of 25% per annum beginning on June 3, 2006 (one year from grant date).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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