FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

_			
STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP
	<b></b>		

l	OMB APPRO	JVAL
l	OMB Number:	3235-0287
l	Estimated average burd	len
1	hours per response:	0.5

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person*     Preiss Frederick						2. Issuer Name <b>and</b> Ticker or Trading Symbol AtriCure, Inc. [ ATRC ]									Check	all app	licable)	g Person(s) to Issuer 10% Owner Other (specify	
(Last) (First) (Middle) 6033 SCHUMACHER PARK DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 07/29/2009									X	belov			)
(Street) WEST CHESTI	CR OF	<del>I</del> 4	5069		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person				
(City)	(St	ate) (2	Zip)													. 0.0			
		Tabl	e I - Nor	n-Deriv	ative	Se	curitie	s Ac	quired,	Dis	posed o	f, or	Bene	eficia	ally (	Owne	ed		
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)						Execution Date,		Transaction Disposed Of Code (Instr. 5)		ties Acquired (A) I Of (D) (Instr. 3, 4			4 and Secu Bene		cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	V	Amount	(A (I	A) or O)	or Price		Transaction(s) (Instr. 3 and 4)			
Common Stock 07/29/					/2009		A		16,00	16,000 A		\$ <mark>0</mark>	0(1) 24,680		D				
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
Derivative Security (Instr. 3)  Conversion or Exercise Price of Derivative Security  Date (Month/Day/Year)  Execution Date, if any (Month/Day/Year)  (Month/Day/Year)		4. Transa Code ( 8)		Str. Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Exercisable Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amoun or Numbe of Title  Shares		ount nber	<u> </u>		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)				

## **Explanation of Responses:**

1. Mr. Preiss acquired these shares pursuant to a Restricted Stock Award under the AtriCure, Inc. 2005 Equity Incentive Plan. The shares will vest 25% annually over four years.

/s/ Julie A. Piton as Attorney-07/31/2009 in-Fact for Frederick C. Preiss

\*\* Signature of Reporting Person Date

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

- \* 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).

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.