FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

20549

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

EMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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* Piton Julie A						2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ATRC]									Check	all app	olicable)	g Person(s) to Issue 10% Own Other (sp		ifv
(Last) (First) (Middle) 6217 CENTRE PARK DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 02/09/2012									X	belov		be	ow)	.y
(Street) WEST CHESTE (City)			15069 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									. Indiv ine) X	,				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execution Da			ate, Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)				4 and Sec Ben		ount of ities icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	of Ind Benef Owne	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						Code	v	Amount		(A) or (D)	Price		Transa	action(s) 3 and 4)		(5	,			
Common Stock 02/09/									F		928(1))	D	\$11	.05	8	32,624	D		
	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 2. Conversion Date (Month/Day/Year) (Month/Day/Year) 3A. Deeme Execution if any (Month/Day/Year)				Date,	4. Transaction Code (Instr.		n of l		6. Date Exercisable and Expiration Date (Month/Day/Year)			e and 7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe of		ount	nt		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct (I or Indire (I) (Instr	Benef Owne t (Instr.	direct eficial ership

Explanation of Responses:

1. The Reporting Person has elected to transfer these shares to the Company to satisfy the tax withholding obligation incurred upon the vesting and release of shares previously acquired pursuant to a Restricted Stock Award.

/s/ Julie A. Piton

02/10/2012

** 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.