FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Was	shington,	D.C.	20549	

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APP	ROVAL
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).

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 Direc	olicable)		Issuer Owner er (specify		
(Last) (First) (Middle) 6217 CENTRE PARK DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 07/29/2011									X	belov	v) ``	belo dmin & CF	w)	
(Street) WEST CHESTE	R OF	H 4	15069		4. If	I. If Amendment, Date of Original Filed (Month/Day/Year)							6. 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		Zip)																
		Tabl	e I - No	n-Deriv	ative	Sec	curitie	s Acc	quired,	Dis	posed o	f, or	Ben	efici	ally	Owne	ed		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execution Date,				ties Acquired (A) I Of (D) (Instr. 3, 4			4 and Sec Ber		ount of ities icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
								Code	v	Amount		A) or D)	Price	•	Transaction(s) (Instr. 3 and 4)			(11311.4)	
Common Stock 07/29/				2011			F		2,965(1	(1) D \$		\$12	2.17 84,457		4,457	D			
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
Derivative Conversion Date Executi Security or Exercise (Month/Day/Year) if any		3A. Deem Execution if any (Month/Da	Date, Transaction Code (Instr.		of		6. Date Exercisable and Expiration Date (Month/Day/Year)		e	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)					9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Nur of	nber					

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

08/01/2011

** 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.