Piton Julie A Form 4 February 21, 2012

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

SECURITIES

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

subject to Section 16. Form 4 or Form 5 obligations may continue.

Check this box

if no longer

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 See Instruction

2. Issuer Name and Ticker or Trading

1(b).

(Last)

(City)

Common

Stock

(Print or Type Responses)

1. Name and Address of Reporting Person * Piton Julie A

(First)

(Street)

Symbol

02/17/2012

(Middle)

(Zip)

AtriCure, Inc. [ATRC]

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

6217 CENTRE PARK DRIVE

4. If Amendment, Date Original

F

Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to

Issuer

(Check all applicable)

OMB

Number:

Expires:

response...

Estimated average

burden hours per

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

VP Fin & Admin & CFO

6. Individual or Joint/Group Filing(Check

Applicable Line) _X_ Form filed by One Reporting Person

Form filed by More than One Reporting Person

WEST CHESTER, OH 45069

(State)

02/17/2012

1. Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3) (Month/Day/Year)

3. 4. Securities Acquired 5. Amount of Transaction(A) or Disposed of Code (D) (Instr. 8) (Instr. 3, 4 and 5)

Securities Beneficially Owned Following Reported

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

(D) or (Instr. 4)

6. Ownership 7. Nature of Form: Direct Indirect Beneficial Indirect (I) Ownership (Instr. 4)

OMB APPROVAL

3235-0287

January 31,

2005

0.5

(A) Transaction(s) or (Instr. 3 and 4) (D) Price

Code V Amount 1,114

(1)

D 96,510 9.95

D

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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

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1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactic Code (Instr. 8)			ate	7. Title and Amount of Underlying Securities	nt of lying ities	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene
	Derivative Security				Securities Acquired			(Instr.	3 and 4)		Owne Follo
					(A) or Disposed						Repo Trans
					of (D) (Instr. 3, 4, and 5)						(Instr
					4, and 3)				Amount		
						Date Exercisable	Expiration Date	Title	or Number of		
				Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Piton Julie A 6217 CENTRE PARK DRIVE WEST CHESTER, OH 45069

VP Fin & Admin & CFO

Signatures

/s/ Julie A Piton 02/21/2012

**Signature of Person Date

Reporting Person

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) 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.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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