FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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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(h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL 3235-0287 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

1. Name and Address of Reporting Person* <u>Strong Stewart W</u>					2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ATRC]								neck all a Dir	ip of Reportir plicable) ector cer (give title	ng Pers	on(s) to Issu 10% Ov Other (s	vner	
(Last) 6217 CE	(F NTRE PAR	,	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 02/09/2011								X bel	ow) ``	(give title below) ce President US Sales		респу
(Street) WEST CHESTER OH 45069				4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)								e) X Fo Fo					
(City)	(S		(Zip)															
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
Date			Date	ransaction e onth/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			Seci Ben Owr	nount of crities eficially ed Following orted	Form (D) o	n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) o (D)	Price	Tran	saction(s) r. 3 and 4)			(111501.4)
Common Stock 02/09					9/201	/2011		A		9,000	A	\$0	1)	35,157		D		
Common Stock 02/09				9/201)/2011			A		13,000) A	\$00	2)	48,157		D		
Common Stock 02/09				9/201	9/2011					3,642	3) D	\$11	.2	44,515		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	se (Month/Day/Year)	3A. Deemed Execution Da if any (Month/Day/Y	ate, T	4. Transa Code (I 3)		5. Number of		6. Date Exercisa Expiration Date (Month/Day/Year			7. Title and Amo of Securities Underlying Derivative Secur (Instr. 3 and 4)		8. Price Deriva Securi (Instr. !	ive derivativ y Securitie	re es ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				C	Code	v	(A)		Date Exercisabl		Expiration Date	Title	Amoun or Numbe of Shares					
Stock Option (Right to	\$11.2	02/09/2011			Α		14,000		02/09/2012	(4)	02/09/2021	Common Stock	14,000	(5)	14,0	00	D	

Explanation of Responses:

- 1. Mr. Strong 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 from date of award.
- 2. Mr. Strong acquired these shares pursuant to the vesting and release of a Performance Share Award under the AtriCure, Inc. 2005 Equity Incentive Plan. The award had both a Company performance goal and a service period requirement, which were both met. Vesting was approved by the Compensation Committee of the Board of Directors on February 9, 2011.
- 3. Mr. Strong has elected to transfer 3,642 shares to the Company to satisfy the tax withholding obligation incurred upon the vesting and release of shares acquired pursuant to a Performance Share Award.
- 4. The option vests and is exercisable as to 25% of the shares one year from the date of grant 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.

5. Not applicable

/s/ Julie A. Piton as Attorneyin-Fact for Stewart W. Strong

02/10/2011

** 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.