FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL									
	OMB Number:	3235-0287								
	Estimated average	burden								
- 1	l									

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

1. Name and Address of Reporting Person *						2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ATRC]									all applica Director	able)	Pers	on(s) to Issu	ner
(Last) (First) (Middle) 6217 CENTRE PARK DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 12/27/2012								X	Officer (give title below) V.P. & Chief Opera			Other (s below) ing Office		
(Street) WEST CHESTER OH 45069				4. 1	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						
(City)	(S	tate)	(Zip)												Person				
		Tal	ole I - Nor	n-Deri	vativ	e Se	curitie	s Acc	quired, I	Dis	posed o	f, or Be	neficia	lly C	wned				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da					ear)	2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed Code (Instr.		ies Acquired (A) or Of (D) (Instr. 3, 4 a		and 5) Securitie Beneficia Owned F		es Forr ally (D) of Following (I) (II		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price		Reported Transacti (Instr. 3 a	ion(s)			(Instr. 4)
Common Stock 12/27/				7/201	/2012			A		10,000 A \$		\$0.0	0(1)	20,000			D		
			Table II -								osed of, onvertib			y Ov	vned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution D if any (Month/Day	Date,	Code (I		of Derivati Securiti Acquire (A) or Dispose of (D) (II	f Ex perivative decurities acquired		. Date Exercisable and xpiration Date Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		De Se	Price of erivative ecurity estr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	s Ily	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)
					Code	v	(A)		Date Exercisable		Expiration Date	Title	Amour or Number of Shares	r					
Stock Option (right to	\$6.73	12/27/2012			A		20,000	1	12/27/2013 ⁽	(2)	12/27/2022	Common Stock	20,00	0	(3)	20,000)	D	

Explanation of Responses:

- 1. The Reporting Person 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 grant.
- 2. 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.
- 3. Not applicable

/s/ Andrew L. Lux

01/04/2013

** 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.