FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

ENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
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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* $\underline{LUX\ ANDREW\ L}$					2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ATRC]										heck all a Dii	pplicable) ector	g Person(s) to Issuer 10% Owner		
(Last) 7555 INI	(Fi	,	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 03/01/2017										icer (give title low) SVP, Ops	Other below 5 & Quality	(specify)	
(Street) MASON (City)			15040 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Lir	ne) X Fo	ual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Tabl	e I - No	n-Deriv	ative	Se	curitie	s Acc	quired,	Dis	posed o	f, or	Bene	ficia	lly Ow	ned			
Date				Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				d Sec Ben Owi	mount of urities eficially ned Following orted	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	nount (A) (D)		Price	Trai	isaction(s) tr. 3 and 4)		(Instr. 4)	
Common Stock					03/01/2017				A		20,000)	Α	\$0.00)(1)	68,095	D		
Common Stock 03/0					/2017	/2017		F		2,506 ⁽²⁾ D		D	\$18.	95	65,589	D			
		Та									sed of, onvertib				Owne	d			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution I if any (Month/Day	n Date,	Date, Transaction Code (Ins		on of		6. Date E Expiratio (Month/E	n Dat		7. Title and Amount of Securities Underlying Derivative Security (Instrand 4)			8. Price o Derivativ Security (Instr. 5)		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code		(A)	(D)			Expiration Date	Title	Amo or Num of Sha	nber					

Explanation of Responses:

- 1. The Reporting Person acquired these shares pursuant to a Restricted Stock Award under the AtriCure, Inc. 2014 Stock Incentive Plan. The shares will vest 25% annually over four years from date of grant.
- 2. 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 Restricted Stock Awards.

Remarks:

/s/ M. Andrew Wade as

Attorney-In-Fact for Andrew

L. Lux

** Signature of Reporting Person Date

03/03/2017

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.