

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

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

OMB APPROVAL	
OMB Number:	3235-0287
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1. Name and Address of Reporting Person* <u>LUX ANDREW L</u>			2. Issuer Name and Ticker or Trading Symbol <u>AtriCure, Inc. [ ATRC ]</u>			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>SVP, Ops &amp; Quality</u>		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) <u>03/17/2017</u>			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person		
7555 INNOVATION WAY			4. If Amendment, Date of Original Filed (Month/Day/Year)					
(Street)								
<u>MASON</u>	<u>OH</u>	<u>45040</u>						
(City)	(State)	(Zip)						

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
<u>Common Stock</u>	<u>03/17/2017</u>		<u>M</u>		<u>20,000</u>	<u>A</u>	<u>\$6.27</u>	<u>85,589</u>	<u>D</u>	
<u>Common Stock</u>	<u>03/17/2017</u>		<u>S</u>		<u>20,000</u>	<u>D</u>	<u>\$18.85<sup>(1)</sup></u>	<u>65,589</u>	<u>D</u>	

**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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
<u>Stock Option (right to buy)</u>	<u>\$6.27</u>	<u>03/17/2017</u>		<u>M</u>			<u>20,000</u>	<u>10/25/2013<sup>(2)</sup></u>	<u>10/25/2022</u>	<u>Common Stock</u>	<u>20,000</u>	<u>\$0.00</u>	<u>0</u>	<u>D</u>	

**Explanation of Responses:**

- This transaction was executed in multiple trades at prices ranging from \$18.64 to \$18.99 per share. The price reported above reflects the weighted average price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.
- These options were granted on October 25, 2012 and are exercisable as to 25% of the shares upon the one-year anniversary of 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.

**Remarks:**

/s/ Jeanette Yacucci as  
Attorney-In-Fact for Andrew L. 03/21/2017  
Lux

\*\* 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.