AtriCure, Inc. Form 4 January 26, 2017						
Check this box	S SECURITIES AND EXCHANGE (Washington, D.C. 20549 OF CHANGES IN BENEFICIAL OW	Number: 3235-0287 Expires: January 31,				
subject to Section 16. Form 4 or Form 5 Filed pursuant to	Estimated average burden hours per response 0.5 ge Act of 1934,					
See Instruction 1(b). See Instruction 30(h) of the Investment Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940						
(Print or Type Responses)						
1. Name and Address of Reporting Person <u>*</u> LUX ANDREW L	2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer				
(Last) (First) (Middle)	AtriCure, Inc. [ATRC] 3. Date of Earliest Transaction	(Check all applicable)				
7555 INNOVATION WAY	(Month/Day/Year) 01/24/2017	Director 10% Owner X Officer (give title Other (specify below) SVP, Ops & Quality				
(Street)	4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(CheckApplicable Line)_X_ Form filed by One Reporting Person				
MASON, OH 45040		Form filed by More than One Reporting Person				
(City) (State) (Zip)	Table I - Non-Derivative Securities Ac	quired, Disposed of, or Beneficially Owned				
	•	5. Amount of Securities6. Ownership Form: Direct7. Nature of IndirectBeneficially Owned(D) orBeneficialOwnedIndirect (I)OwnershipFollowing Reported(Instr. 4)(Instr. 4)Transaction(s) (Instr. 3 and 4)(Instr. 4)(Instr. 4)				
Common 01/24/2017 Stock	F 699 $\frac{(1)}{10}$ D $\frac{$}{15.7}$	48,095 D				

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

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 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 Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactic Code (Instr. 8)	5. orNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		ate	Secur	ınt of rlying	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secu Bene Owna Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

Reporting Owners

Reporting Owner Name / Address	ress	Relationships				
	Director	10% Owner	Officer	Other		
LUX ANDREW L 7555 INNOVATION WAY MASON, OH 45040	ľ		SVP, Ops & Quality			
Signatures						
/s/ Andrew L. Lux	01/26/2017					
<u>**</u> Signature of Reporting Person	Date					

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.