FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL									
	OMB Number:	3235-028								
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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)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

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1. Name and Address of Reporting Person* <u>Lanning Mark R</u>						2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ATRC]									5. Relationship of Reporting Person(s) to Issu (Check all applicable) X Director 10% Own					
(Last) (First) (Middle) 21086 ST. MARY'S ROAD, PO BOX #1						3. Date of Earliest Transaction (Month/Day/Year) 05/22/2018											er (give title	Other (sp		(specify
(Street) OLDENBERG IN 47036 (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)										idual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
Date						2A. Deemed Execution Day/Year) if any (Month/Day/Y			tion Date, Transa			ities Acquired (A) d Of (D) (Instr. 3, 4			4 and See Be		Amount of ecurities eneficially wned Following eported		nership Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
							v	Amount	(A) or D)	Price		Transaction(s) (Instr. 3 and 4)				(1130.4)			
Common Stock 05/22/						2018		A		5,221(1)		A	\$0.	\$0.00		104,226		D		
Common Stock																1,800			I	Held by spouse ⁽²⁾
	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 Da if any (Month/Day/Y	Date,	Code (Ins				6. Date E Expiratio (Month/D	n Date	е	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)				ivative curity etr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(: (Instr. 4)	Ov Fo Di or (I)	wnership orm: rect (D) Indirect (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Nun 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 upon the one-year anniversary of the grant date.
- 2. The Reporting Person disclaims beneficial ownership of these securities, except as to his pecuniary interest therein.

Remarks:

/s/ M. Andrew Wade as Attorney-in-Fact for Mark R. 05/24/2018

Lanning

** 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.