FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPE	ROVAL
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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

1. Name and Address of Reporting Person* <u>CARREL MICHAEL H</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) 7555 INNOVATION WAY						3. Date of Earliest Transaction (Month/Day/Year) 12/30/2016								X	belov	,	Other (specify below)	
(Street) MASON OH 45040 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X				
		Tabl	e I - No	on-Deriv	ative	Sec	uritie	s Ac	quired	l, Dis	sposed o	f, or E	Benefi	cially	Owne	ed		
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day)						Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) of (D) (Instr. 3, 4)			and 5) Secur Benef		cially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
									Code	v	Amount	(A) o (D)	r Prid	е	Transa	action(s) 3 and 4)		(11150.4)
Common Stock 12/30/20						016		A	V	556 ⁽¹⁾	A	\$1	2.27 ⁽²⁾		10,084	D		
	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	Date (Month/Day/Year) Execution Date, if any (Month/Day/Year)		4. Transa Code (8)		Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year) Date Exercisable Expiration Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe of Title Shares		•		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

- 1. Shares acquired pursuant to the AtriCure, Inc. 2008 Employee Stock Purchase Plan for the period ended December 30, 2016.
- 2. Closing price on December 30, 2016 was \$19.57.

Remarks:

/s/ M. Andrew Wade as

Attorney-in-Fact for Michael 01/04/2017

H. Carrel

** 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.

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