FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

or Section 30(h) of the Investment Company Act of 1940

STATEMENT	OF CHANGES IN	N BENEFICIAL	OWNERSHIP

	OMB APPROVAL										
	OMB Number:	3235-0287									
	Estimated average b	ourden									
-	hours nor resnance.	0.5									

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

1. Name and Address of Reporting Person [*] <u>CARREL MICHAEL H</u>						2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ATRC]								Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
(Last) (First) (Middle) 7555 INNOVATION WAY						3. Date of Earliest Transaction (Month/Day/Year) 06/30/2017								X	belov	,	Other below	´
(Street) MASON (City)	OF		15040 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indiv Line) X	vidual 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																		
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day)					Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4 of D) (Inst					ties cially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership				
							Code	v	Amount	(A) o (D)	r Prid	e	Transa	action(s) 3 and 4)		(Instr. 4)		
Common Stock 06/30/20				2017	017		A	V	612(1)	A	\$1	6.32 ⁽²⁾	32 ⁽²⁾ 670,696		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)	3A. Deemed Execution Da if any (Month/Day/Y	on Date,	4. Transactic Code (Ins 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			vative urity		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	or Number of Shares					

Explanation of Responses:

- 1. Shares acquired pursuant to the AtriCure, Inc. 2008 Employee Stock Purchase Plan for the period ended June 30, 2017.
- 2. Closing price on June 30, 2017 was \$24.25.

Remarks:

/s/ M. Andrew Wade as Attorney-In-Fact for Michael

07/05/2017

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.

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.