FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-028									

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

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OMB Number:	3235-0287						
Estimated average burden							
hours per response:	0.5						

Name and Address of Reporting Person* CARDELL MICHAEL					2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ATRC]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)							
CARREL MICHAEL H				1	Title inc. [Title]									X	Direc	ctor	10% C		wner		
(Last) (First) (Middle)						3. Date of Earliest Transaction (Month/Day/Year)								\dashv	X	belov	,	(give title Other below			
7555 INNOVATION WAY					12/	12/29/2017 President, CEO, & Director											r				
(Street)				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)							
MASON	OI	H 4	15040												X Form filed by One Reporting Person						
(City)	(St	ate) (Zip)												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. Transa Date (Month/D						Execution Date,		Transaction Disposed Code (Instr. 5)			ities Acquired (A) d Of (D) (Instr. 3, 4			4 and Secur Benef Owne		icially d Following	6. Owner Form: D (D) or Ir (I) (Insti	irect direct	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
										v	Amount		(A) or (D)	Price	•	Reported Transaction(s) (Instr. 3 and 4)				(msu. 4)	
Common Stock 12/2					9/2017				A	V	547(1)) A \$		\$15	5.5 ⁽²⁾		69,843	Γ)		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
Derivative Conversion Date Execution Date, Security or Exercise (Month/Day/Year) if any					ansaction of ode (Instr. Derivativ		ative rities ired sed	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)					9. Number of derivative Securities Beneficially Owned Following Reported Transactions (Instr. 4)	Owr Fori Dire or Ir (I) (I	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)		Date Exercisal		Expiration Date	Title	of	mber ares							

Explanation of Responses:

- 1. Shares acquired pursuant to the AtriCure, Inc. 2008 Employee Stock Purchase Plan for the period ended December 31, 2017.
- 2. Closing price on December 29, 2017 was \$18.24.

Remarks:

/s/ Jeanette Yacucci as

01/08/2018 Attorney-in-Fact for Michael

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.