FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-0287							
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0.5

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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(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

1. Name and Address of Reporting Person* Seith Douglas J					2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ATRC]									Check	tionship of Reportir all applicable) Director Officer (give title		10%	Issuer Owner r (specify	
(Last) (First) (Middle) 7555 INNOVATION WAY					3. Date of Earliest Transaction (Month/Day/Year) 12/29/2017										X	belov	v) ``	below	v)`
(Street) MASON (City)	OF		15040 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									. Indiv ine) X	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Tabl	e I - Noi	ո-Deriv	ative	Sec	curitie	s Ac	quired,	Dis	posed o	f, or	Ben	eficia	ally (Owne	ed		
1. Title of Security (Instr. 3) 2. Transa Date (Month/D					Execution Date,		3. Transaction Code (Instr. 8)						4 and S		ount of ties 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) or (D)		Price		Reported Transaction(s) (Instr. 3 and 4)			(1130.4)	
Common Stock 12/29/					/2017	2017			A	V	328 ⁽¹⁾ A		A	\$15	.5 ⁽²⁾	240,695		D	
Common Stock														3,500		I	Held by spouse ⁽³⁾		
		Та									sed of, onvertib				y Ov	vned			,
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,	4. Transaction Code (Instr 8)				6. Date E Expiratio (Month/E	n Date	е	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		ıstr. 3	Deriv	ivative urity	9. Number of derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Nu	mber					

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.
- 3. The Reporting Person disclaims beneficial ownership of these securities, except as to his pecuniary interest therein.

Remarks:

<u>/s/ Douglas J. Seith</u> <u>01/08/2018</u>

** 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.