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

hours per response:

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

Address of	*																	
1. Name and Address of Reporting Person* Seith Douglas J					2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ATRC]										olicable)	g Person(s) to I	ssuer Owner	
(Last) (First) (Middle) 7555 INNOVATION WAY				3. Date of Earliest Transaction (Month/Day/Year) 12/30/2016								X	Officer (give title below) Chief Ope		Other (specify below)			
OF		15040 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								i. Indiv ine) X	Form	or Joint/Group Filing (Check Applicable on filed by One Reporting Person on filed by More than One Reporting son			
	Tabl	e I - No	on-Deriv	ative/	Sec	uritie	s Ac	quired	l, Dis	sposed o	f, or E	enefici	ally (Owne	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4)				and 5) Secu Bene Owne		icially 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 Price		Transa	action(s)		(111501.4)	
Common Stock 12/30,			2016	:016				V	109(1)	A	\$12.	27 ⁽²⁾	19	91,432	D			
Common Stock															3,500	I	Held by spouse ⁽³⁾	
	Та	ıble II -												vned			,	
/e Conversion or Exercise (Month/Day/Year) Execution Date, if any				Transa		of Deriv Secu Acqu (A) or Dispo of (D) (Instr	6. Date Exercisable and Expiration Date (Month/Day/Year)			and 4)		Security (Instr. 5)		derivative Securities Beneficially Owned Following Reported	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
Common Stock Common Stock Table II 1. Title of Derivative Conversion or Exercise Price of Derivative Derivative Derivative Operivative			Table II - Derivat (e.g., p Date (Month/Day/Year) (Month/Day/Year)	Table II - Derivative S (e.g., puts, conversion Date (Month/Day/Year) Sa. Deemed Execution Date, if any (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year)	Table II - Derivative Secur (e.g., puts, calls, onversion Exercise icice of erivative Privative (Month/Day/Year) 3. Transaction Date Execution Date, if any (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year)	Table II - Derivative Securities (e.g., puts, calls, warr Derivative Securities (e.g., puts, calls, warr Derivative Securities (e.g., puts, calls, warr Execution Date, if any (Month/Day/Year) (Month/Day/Year) 3. Transaction Date, if any (Month/Day/Year) (Month/Day/Year) 5. Nu Transaction Code (Instr. 8) 5. Nu Oberivative Security (Month/Day/Year) 6. 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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.
- 3. The Reporting Person disclaims beneficial ownership of these securities, except as to his pecuniary interest therein.

Remarks:

01/04/2017 /s/ Douglas J. Seith

** 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.