

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL	
OMB Number:	3235-0287
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1. Name and Address of Reporting Person* Seith Douglas J			2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ATRC]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) Chief Operating Officer		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 03/04/2015			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person		
6217 CENTRE PARK DRIVE			4. If Amendment, Date of Original Filed (Month/Day/Year)					
(Street) WEST CHESTER OH 45069								
(City) (State) (Zip)								

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
Common Stock	03/04/2015		S		3,000	D	\$17.43 ⁽¹⁾	154,415	D	
Common Stock	03/04/2015		S		6,000	D	\$17.42 ⁽²⁾	148,415	D	
Common Stock	03/04/2015		S		10,700	D	\$17.44 ⁽³⁾	137,715	D	
Common Stock	03/04/2015		S		4,263	D	\$17.42 ⁽⁴⁾	133,452	D	
Common Stock	03/04/2015		M		1,513	A	\$11.63	134,965	D	
Common Stock	03/04/2015		M		1,487	A	\$12	136,452	D	
Common Stock	03/04/2015		S		3,000	D	\$17.41 ⁽⁵⁾	133,452	D	
Common Stock	03/05/2015		S		3,633	D	\$17.74 ⁽⁶⁾	129,819	D	
Common Stock	03/05/2015		M		1,144	A	\$12	130,963	D	
Common Stock	03/05/2015		S		1,144	D	\$17.73 ⁽⁷⁾	129,819	D	
Common Stock	03/05/2015		S		1,000	D	\$17.72 ⁽⁸⁾	128,819	D	
Common Stock	03/05/2015		S		3,948	D	\$17.75 ⁽⁹⁾	124,871	D	
Common Stock								3,500	I	Held by spouse ⁽¹⁰⁾

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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (right to buy)	\$11.63	03/04/2015		M		1,513		04/06/2006 ⁽¹¹⁾	04/06/2015	Common Stock	1,513	\$0.00	0	D	
Stock Option (right to buy)	\$12	03/04/2015		M		1,487		08/05/2006 ⁽¹²⁾	08/05/2015	Common Stock	1,487	\$0.00	1,144	D	
Stock Option (right to buy)	\$12	03/05/2015		M		1,144		08/05/2006 ⁽¹²⁾	08/05/2015	Common Stock	1,144	\$0.00	0	D	

Explanation of Responses:

1. This transaction was executed in multiple trades at prices ranging from \$17.28 to \$17.66 per share. The price reported above reflects the weighted average price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.

2. This transaction was executed in multiple trades at prices ranging from \$17.28 to \$17.68 per share. The price reported above reflects the weighted average price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.
3. This transaction was executed in multiple trades at prices ranging from \$17.28 to \$17.70 per share. The price reported above reflects the weighted average price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.
4. This transaction was executed in multiple trades at prices ranging from \$17.28 to \$17.68 per share. The price reported above reflects the weighted average price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.
5. This transaction was executed in multiple trades at prices ranging from \$17.26 to \$17.68 per share. The price reported above reflects the weighted average price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.
6. This transaction was executed in multiple trades at prices ranging from \$17.57 to \$17.76 per share. The price reported above reflects the weighted average price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.
7. This transaction was executed in multiple trades at prices ranging from \$17.57 to \$17.77 per share. The price reported above reflects the weighted average price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.
8. This transaction was executed in multiple trades at prices ranging from \$17.56 to \$17.77 per share. The price reported above reflects the weighted average price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.
9. This transaction was executed in multiple trades at prices ranging from \$17.75 to \$17.80 per share. The price reported above reflects the weighted average price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.
10. The Reporting Person disclaims beneficial ownership of these securities, except as to his pecuniary interest therein.
11. These options were granted on April 6, 2005 and are exercisable cumulatively at a rate of 25% per annum beginning one year from date of grant.
12. These options were granted on August 5, 2005 and are exercisable cumulatively at a rate of 25% per annum beginning one year from date of grant.

Remarks:

/s/ Douglas J. Seith

03/06/2015

** 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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