## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

rradinington, Didi 200 id

OMB APPRO	VAL
OMB Number:	3235-0287
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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

Name and Address of Reporting Person*     Drachman David J					2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ ATRC ]								k all applic	able)	g Person(s) to Is		
(Last) 6217 CE	(F ENTRE PAF	irst) RK DRIVE	3. Date of Earliest Transaction (Month/Day/Year) 05/08/2012						_ x	below)	(give title	Other below O and Directo					
(Street) WEST CHEST	ER O	4. If Amendment, Date of Original Filed (Month/Day/Year)							Line)	6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City)	(S	state)	(Zip)														
:	- · · · ·		ble I - No			ecurities Ac	<del></del>	, Dis	posed o				_	-4 -6	I	7. Nature of	
Date				2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)	Transa Code	3. Transaction Code (Instr. 8)				A) or B, 4 and 5)	Beneficia Owned F	s ally following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Indirect Beneficial Ownership	
							Code	v	Amount (A) or (D)		Price	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common Stock 05/0				05/08	/2012		М		18,575	5	Α	\$1.33	423	,681	D		
Commor	on Stock 05/08				/2012		S		18,575	5	D	\$9.1(1)	405	,106	D		
Commor	Stock			05/09	/2012		М		2,900		A	\$1.33	\$1.33 408,006 D				
Commor	Stock		/2012		S		2,900		D	\$9.06	405	,106	D				
Common Stock 05/10							М		1,586		A	\$1.33	406	,692	D		
Common Stock 05/10							S		1,586		D	\$9.04(2	405	,106	D		
Common Stock 05/10							M		87,160	)	A	\$1.33	492	,266	D		
						curities Acqu Ils, warrants							Owned				
1. Title of Derivative Security (Instr. 3)  2. Conversion or Exercise Price of Derivative Security  (Instr. 3)  3. Transaction Date (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)		Date, T	ransaction ode (Instr	n of	6. Date Exercisa Expiration Date (Month/Day/Year		ble and 7. Title a		curities erlying ative Se	ecurity	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti	Ownersh Form: Direct (D or Indirect (I) (Instr.	Beneficial Ownership t (Instr. 4)			

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)		ransaction of ode (Instr. Derivative		6. Date Exerci Expiration Dat (Month/Day/Ye	te	7. Title an of Securit Underlyin Derivative (Instr. 3 an	ies g Security	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			Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Incentive Stock Option (right to buy)	\$1.33	05/08/2012		M			18,575	10/14/2003 <sup>(3)</sup>	10/14/2012	Common Stock	18,575	\$0.00	121,542	D	
Incentive Stock Option (right to buy)	\$1.33	05/09/2012		М			2,900	10/14/2003 <sup>(3)</sup>	10/14/2012	Common Stock	2,900	\$0.00	118,642	D	
Incentive Stock Option (right to buy)	\$1.33	05/10/2012		М			1,586	10/14/2003 <sup>(3)</sup>	10/14/2012	Common Stock	1,586	\$0.00	117,056	D	
Incentive Stock Option (right to buy)	\$1.33	05/10/2012		M			87,160	10/14/2003 <sup>(3)</sup>	10/14/2012	Common Stock	87,160	\$0.00	29,896	D	

## Explanation of Responses:

- 1. This transaction was executed in multiple trades at prices ranging from \$9.06 to \$9.12 per share. The price reported above reflects the weighted average purchase 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 \$9.01 to \$9.05 per share. The price reported above reflects the weighted average purchase 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. These options were granted on October 14, 2002 and are exercisable cumulatively at a rate of 25% per annum beginning on October 14, 2003 (one year from grant date).

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.