FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

washington, D.C. 203

OMB APP	ROVAL

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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* <u>Discovery Group I, LLC</u>						2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ATRC]								Relationship of Reporting Person(s) to Issuer (Check all applicable) Director X 10% Owner					
(Last) (First) (Middle) 191 N. WACKER DRIVE SUITE 1685					3. Date of Earliest Transaction (Month/Day/Year) 12/06/2012									Officer (give title Other (specify below) below)					
(Street) CHICAGO IL 60606			- 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person Y Form filed by More than One Reporting Person Y Form filed by More than One Reporting Person						
(City)	(St	ate) (Zip)												. 0.0				
		Tabl	e I -	Non-Deriv	ative	Sec	uritie	s Ac	quir	ed, C	Disposed o	f, or E	Benefic	ially	/ Owne	ed			
1. Title of Security (Instr. 3)				2. Transactio Date (Month/Day/	rear)	2A. Deemed Execution Date, if any (Month/Day/Year)		e,	3. Transaction Code (Instr. 8)		4. Securities Acquired (Disposed Of (D) (Instr. 3				5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership
								Code	v	Amount (A) or (D)		Price	Trans		etion(s) and 4)			(Instr. 4)	
Common Stock			12/06/20	12				S		8,558(1)	D	\$6.21	49 ⁽²⁾	1,75	1,751,337		I	By Pleiades Investment Partners - D, L.P ⁽¹⁾	
Common Stock		12/07/20	12				S		17,300(1)	A	\$6.12	84 ⁽³⁾	1,734,037		I		By Pleiades Investment Partners - D, L.P ⁽¹⁾		
Common Stock			12/10/20	0/2012				S		6,035	D	\$6.10	47(4)	1,728,002			I	By Pleiades Investment Partners - D, L.P ⁽⁴⁾	
		Та	ble								sposed of, , convertib				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exec if any	Deemed ution Date, / th/Day/Year)	4. Transa Code (8)		5. Nur of Deriva Secur Acqui (A) or Dispo of (D) (Instr. and 5	ative rities ired sed	Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		De Se (In	Price of rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exer	cisabl	Expiration e Date	Title	Amount or Number of Shares						
	nd Address of ery Group	Reporting Person*																	
(Last)		(First)	((Middle)															

City) (State) (City) (State) (City) (State) (City) (State) (City) (State) (City) (City) (State) (City) (City) (State) (City) (Middle) (City) (City) (Middle) (City) (Middle) (City) (Middle) (City) (City) (Middle)

191 N. WACKER DRIVE SUITE 1685								
(Street) CHICAGO	IL	60606						
(City)	(State)	(Zip)						
1. Name and Address of Reporting Person* Murphy Michael R								
(Last) C/O DISCOVERY	(First) GROUP I, LLC	(Middle)						
191 N. WACKER DRIVE SUITE 1685								
(Street) CHICAGO	IL	60606						
(City)	(State)	(Zip)						

Explanation of Responses:

- 1. Discovery Group I, LLC is an investment manager for Pleiades Investment Partners D, L.P., which is a discretionary client of the reporting person, that owns the reported securities. The reporting person disclaims beneficial ownership of the reported securities except to the extent of its pecuniary interest therein.
- 2. This transaction was executed in multiple trades at prices ranging from \$6.20 6.25. 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. This transaction was executed in multiple trades at prices ranging from \$6.10 6.16. 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
- 4. This transaction was executed in multiple trades at prices ranging from \$6.06 \$6.14. 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

Remarks

Michael R. Murphy and Daniel J. Donoghue are managing members of Discovery Group I, LLC, and each disclaims beneficial ownership of the reported securities except to the extent of his pecuniary interest therein

Michael R. Murphy, Managing
Partner
Daniel J Donoghue
Michael R. Murphy
** 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.