FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

ox if no longer subject to	
orm 4 or Form 5	

191 N. WACKER DRIVE SUITE 1685

IL

(State)

60606

(Zip)

(Street)

(City)

**CHICAGO** 

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden 0.5 hours per response:

Check this box if no longer sub Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b). Filed pursuant to Section 16(a) of the Securities Eychange Act of 1934

11130100	ion 1(b).			1 110							t Company Ac								
1. Name and Address of Reporting Person* <u>Discovery Group I, LLC</u>					2. Issuer Name <b>and</b> 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) 03/17/2011									Offic belo	er (give title w)	e 	Othe belov	r (specify v)	
(Street) CHICAGO IL 60606				-   4. -	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line)	6. Individual or Joint/Group Filing (Check Applicable Line)  Form filed by One Reporting Person  X Form filed by More than One Reporting Person					
(City)	(St		Zip)	Non Dori	, otiv		itio	. ^ .			Dianagad	of 0"	Donot	i a i a II b	. 0	- d			
1. Title of S	Security (Inst		e 1 -	2. Transaction	n	2A. Dee	med	3.		ction	4. Securities Disposed Of	Acquire	d (A) or		5. Amo	unt of			7. Nature of Indirect
				(Month/Day/Year)				Co	Code (Instr.						Beneficially Owned Following Reported		(D) or Indirect (I) (Instr. 4)		Beneficial Ownership (Instr. 4)
					_			Co	de	v	Amount	(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)				
Common	Stock			03/17/201	11			1	P		6,729(1)	A	\$9.89	\$9.8976 <sup>(3)</sup>		1,592,728		I	By Discovery Equity Partners, L.P. <sup>(1)</sup>
Common	Stock			03/17/202	11			1	P		1,095(2)	A	\$9.89	976 <sup>(3)</sup>	26	8,863			By Pleiades Investment Partners - D, L.P <sup>(2)</sup>
Common	Stock			03/18/202	11			Ī	P		2,413 <sup>(1)</sup>	A	\$10.1	131(4)	1,59	95,141			By Discovery Equity Partners, L.P. <sup>(1)</sup>
Common	Stock			03/21/202	11			1	P		1,200(1)	A	\$10.6	288 <sup>(5)</sup>	1,59	96,341		I	By Discovery Equity Partners, L.P. <sup>(1)</sup>
		Та	ble								sposed of				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exec if an	Deemed cution Date,	4. Trans	saction (Instr.	5. Nur of Deriva Secur Acqui (A) or Dispo of (D) (Instr. and 5	mber ative rities ired sed	6. D Exp	ate Ex	kercisable and n Date ay/Year)	7. Tit Amo Secu Unde Deriv Secu	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		Price of erivative ecurity estr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	ly C	LO. Ownership Form: Direct (D) or Indirect I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exe	e ercisal	Expiration Date	n Title	Amou or Numb of Share	er					
	d Address of <u>ery <b>Grou</b></u>	Reporting Person*																	
(Last)		(First)		(Middle)															

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

## **Explanation of Responses:**

- 1. Discovery Group I, LLC is the General Partner of Discovery Equity Partners, 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. 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.
- 3. This transaction was executed in multiple trades at prices ranging from \$9.82 to \$9.95. 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 \$10.00 to \$10.24. 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
- 5. This transaction was executed in multiple trades at prices ranging from \$10.41 \$10.65. 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<br/>Director03/21/2011Daniel J. Donoghue03/21/2011Michael R. Murphy03/21/2011\*\* Signature of Reporting PersonDate

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.