SEC Form 4	
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## FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(b).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL					
OMB Number:	3235-0287				
Estimated average b	urden				

hours per response:	0.5
Estimated average burden	

By Pleiades

Investment Partners -D, L.P<sup>(3)</sup>

I

Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).		Filed pu	ursuant to Section 16 or Section 30(h) of th	i(a) of th	ne Sec tment	curities Exchar Company Act	nge Act o of 1940	of 1934		Estimated average bu hours per response:	urden 0.5
1. Name and Address of Reporting Person Discovery Group I, LLC		a. Issuer Name <b>and</b> T AtriCure, Inc.		elationship of Re eck all applicable) Director	Reporting Person(s) to Issuer ble) X 10% Owner						
(Last) (First) 191 N. WACKER DRIVE SUITE					n (Mo	nth/Day/Year)		Officer (give below)		Other (specify below)	
(Street) CHICAGO IL (City) (State)	4	I. If Amendment, Dat	) Form filed b	nt/Group Filing (Check Applicable d by One Reporting Person d by More than One Reporting							
Ta	able I - N	lon-Derivati	ve Securities A	cquir	ed, I	Disposed o	of, or E	Beneficiall	y Owned		
1. Title of Security (Instr. 3)	1	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code ( 8)		4. Securities Disposed Of	Of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Followin	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
				Code	v	Amount			Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock		11/10/2010		р		8,560 <sup>(1)</sup>	A	\$8.0927 <sup>(2)</sup>	1,411,447	I	By Discovery Equity Partners, L.P. <sup>(1)</sup>
Common Stock		11/10/2010		р		1,440 <sup>(3)</sup>	A	\$8.0927 <sup>(2)</sup>	241,106	I	By Pleiades Investment Partners - D, L.P <sup>(3)</sup>
Common Stock		11/11/2010		Р		<b>2,868</b> <sup>(1)</sup>	A	\$8.05	1,414,315	I	By Discovery Equity Partners, L.P. <sup>(1)</sup>
Common Stock		11/11/2010		р		482 <sup>(3)</sup>	A	\$8.05	241,588	I	By Pleiades Investment Partners - D, L.P <sup>(3)</sup>
Common Stock		11/12/2010		Р		5,537(1)	A	\$8.0353 <sup>(4)</sup>	1,419,851	I	By Discovery Equity Partners, L.P. <sup>(1)</sup>

11/12/2010

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. Transa Code ( 8)		n of		ction nstr.		of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4		of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4		6. Date Exercisable and Expiration Date (Month/Day/Year)		Expiration Date (Month/Day/Year) cquired ) or sposed (D) str. 3, 4		and 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												

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**931**<sup>(3)</sup>

Α

**\$8.0353**<sup>(4)</sup>

242,520

1. Name and Address of Reporting Person\*

**Common Stock** 

<u>Discovery G</u>	<u>roup I, LLC</u>	
(Last) 191 N. WACK	(First) ER DRIVE SUITE 1685	(Middle)
(Street) CHICAGO	IL	60606
(City)	(State)	(Zip)
1. Name and Addr <u>Murphy Mic</u>	ess of Reporting Person <sup>*</sup> : <u>hael R</u>	
(Last)	(First)	(Middle)
C/O DISCOVE	RY GROUP I, LLC	
191 N. WACK	ER DRIVE SUITE 1685	i -
(Street)		
CHICAGO	IL	60606
(City)	(State)	(Zip)
1. Name and Addr Donoghue D	ess of Reporting Person <sup>*</sup> Daniel J	
(Last)	(First)	(Middle)
C/O DISCOVE	RY GROUP I, LLC	
191 N. WACK	ER DRIVE SUITE 1685	i -
(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. This transaction was executed in multiple trades at prices ranging from \$8.06 to \$8.10. 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. 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.

4. This transaction was executed in multiple trades at prices ranging from \$8.00 to \$8.05. 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.

Micahel R. Murphy, Managing	11/12/2010
Director	11/12/2010
Daniel J. Donoghue	<u>11/12/2010</u>
Michael R. Murphy	<u>11/12/2010</u>
** 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.