

Murphy Michael R  
Form 4  
November 12, 2010

**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 OF  
SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,  
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section  
30(h) of the Investment Company Act of 1940

## OMB APPROVAL

OMB  
Number: 3235-0287  
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Estimated average  
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response... 0.5

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Discovery Group I, LLC

(Last) (First) (Middle)

191 N. WACKER DRIVE SUITE  
1685,

(Street)

CHICAGO, IL 60606

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading  
Symbol

AtriCure, Inc. [ATRC]

3. Date of Earliest Transaction  
(Month/Day/Year)

11/10/2010

4. If Amendment, Date Original  
Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to  
Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_X\_\_\_\_ 10% Owner  
\_\_\_\_ Officer (give title below) \_\_\_\_ Other (specify below)

6. Individual or Joint/Group Filing(Check  
Applicable Line)

\_\_\_\_ Form filed by One Reporting Person  
\_\_\_\_X\_\_\_\_ Form filed by More than One Reporting  
Person

**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. 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	11/10/2010		P		8,560 <u>(1)</u>	A \$ 8.0927 <u>(2)</u>	1,411,447	I	By Discovery Equity Partners, L.P. <u>(1)</u>
Common Stock	11/10/2010		P		1,440 <u>(3)</u>	A \$ 8.0927 <u>(2)</u>	241,106	I	By Pleiades Investment Partners - D, L.P <u>(3)</u>
Common Stock	11/11/2010		P		2,868 <u>(1)</u>	A \$ 8.05	1,414,315	I	By Discovery Equity

Common Stock	11/11/2010	P	482 <sup>(3)</sup>	A	\$ 8.05	241,588	I	Partners, L.P. <sup>(1)</sup> By Pleiades Investment Partners - D, L.P. <sup>(3)</sup>
Common Stock	11/12/2010	P	5,537 <sup>(1)</sup>	A	\$ 8.0353 <sup>(4)</sup>	1,419,851	I	By Discovery Equity Partners, L.P. <sup>(1)</sup>
Common Stock	11/12/2010	P	931 <sup>(3)</sup>	A	\$ 8.0353 <sup>(4)</sup>	242,520	I	By Pleiades Investment Partners - D, L.P. <sup>(3)</sup>

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

**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 control number.**

SEC 1474  
(9-02)

**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 Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Owned Following Reporting Transaction (Instr. 6)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

## Reporting Owners

Reporting Owner Name / Address	Relationships
	Director 10% Owner Officer Other
Discovery Group I, LLC 191 N. WACKER DRIVE SUITE 1685 CHICAGO, IL 60606	X

Murphy Michael R  
C/O DISCOVERY GROUP I, LLC  
191 N. WACKER DRIVE SUITE 1685  
CHICAGO, IL 60606

X

Donoghue Daniel J  
C/O DISCOVERY GROUP I, LLC  
191 N. WACKER DRIVE SUITE 1685  
CHICAGO, IL 60606

X

## Signatures

Micahel R. Murphy, Managing  
Director

11/12/2010

\_\_Signature of Reporting Person

Date

Daniel J. Donoghue

11/12/2010

\_\_Signature of Reporting Person

Date

Michael R. Murphy

11/12/2010

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

\* 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).

(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 securities except to the extent of his pecuniary interest therein.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.