

Murphy Michael R
Form 4/A
March 22, 2011

FORM 4

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

OMB APPROVAL

OMB Number: 3235-0287
Expires: January 31, 2005
Estimated average burden hours per response... 0.5

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

(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)
03/14/2011

4. If Amendment, Date Original Filed(Month/Day/Year)
03/16/2011

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. Transaction 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 Ownership (Instr. 4)
			Code	V Amount (D) Price			
Common Stock	03/14/2011		P	100 ⁽¹⁾ A \$ 9.55	1,574,992	I	By Discovery Equity Partners, L.P. ⁽¹⁾
Common Stock	03/15/2011		P	6,065 ⁽¹⁾ A \$ 9.6868 ⁽³⁾	1,581,057	I	By Discovery Equity Partners, L.P. ⁽¹⁾
Common Stock	03/15/2011		P	987 ⁽²⁾ A \$ 9.6868	267,768	I	By Pleiades Investment

					(3)					Partners - D, L.P (2)
Common Stock	03/16/2011		P	4,942 (1)	A	\$ 9.7306 (4)	1,585,999	I		By Discovery Equity Partners, L.P. (1)

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. Nu Deriv Secur Bene Own Follo Repor Trans (Instr
---	--	---	---	--------------------------------------	--	--	---	---	---

						Date Exercisable	Expiration Date	Title	Amount or Number of Shares
				Code	V (A) (D)				

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

Donoghue Daniel J
C/O 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

Signatures

Michael R. Murphy, Managing Director 03/22/2011

__Signature of Reporting Person Date

Daniel J. Donoghue 03/22/2011

__Signature of Reporting Person Date

Michael R. Murphy 03/22/2011

__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) 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 \$9.50 to \$9.75. 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 \$9.69 to \$9.80. 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

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.