Murphy Michael R Form 4 December 01, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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OMB APPROVAL

Check this box if no longer subject to Section 16. Form 4 or Form 5

obligations may continue. See Instruction

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

1(b).

(Print or Type Responses)

1. Name and A	Address of Reporting	Person *	2 Icens	or Nome or	nd Ticker or Trading	5. Relationship of	f Reporting Pe	erson(s) to		
Discovery Group I, LLC			2. Issuer Name and Ticker or Trading Symbol			Issuer				
			AtriCu	re, Inc. [A	ATRC]	(Check all applicable)				
(Last)	(First)	(Middle)	3. Date of	of Earliest	Transaction					
			(Month/I	Day/Year)		Director	_X_ 1	0% Owner		
191 N. WACKER DRIVE SUITE			11/29/2	2010		Officer (give title Other (spec				
1685,						below)	below)			
	(Street)		4. If Am	endment, I	Date Original	6. Individual or J	oint/Group Fi	ling(Check		
			Filed(Month/Day/Year)			Applicable Line)				
					·· <i>,</i>	Form filed by (One Reporting I	Person		
CHICAGO	, IL 60606					_X_ Form filed by Person	More than One	Reporting		
(City)	(State)	(Zip)	Tab	le I - Non-	-Derivative Securities Acq	uired, Disposed o	f, or Benefici	ally Owned		
1.Title of	2. Transaction Date	2A. Deeme	ed	3.	4. Securities Acquired	5. Amount of	6.	7. Nature		
Security	(Month/Day/Year)	Execution	Date, if	Transacti	or(A) or Disposed of (D)	Securities	Ownership	Indirect		

(City)	(State)	(Zip) Tab	le I - Non-	Derivativ	e Secu	ırities Acq	uired, Disposed o	of, or Benefici	ally 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. Securion(A) or Di (Instr. 3,	spose	d of (D)	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)
Common Stock	11/29/2010		P	1,000 (1)	A	\$ 8.5	1,425,815	I	By Discovery Equity Partners, L.P. (1)
Common Stock	11/30/2010		P	2,264 (1)	A	\$ 8.4947 (2)	1,428,079	I	By Discovery Equity Partners, L.P. (1)
Common Stock	11/30/2010		P	381 (3)	A	\$ 8.4947	243,737	I	By Pleiades Investment

(2)

Partners -D, L.P (3)

(9-02)

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

SEC 1474 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.

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. Transactic Code (Instr. 8)	5. onNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3,	.	ate	7. Title Amoun Underly Securit (Instr. 3	nt of ying	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Owne Follo Repo Trans (Instr
				Code V	4, and 5) (A) (D)	Date Exercisable	Expiration Date	Title I	Amount or Number of Shares		

Reporting Owners

**Signature of Reporting Person

Reporting Owner Name / Address				
	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	12/01/2010			

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Date

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Daniel J. Donoghue 12/01/2010

**Signature of Reporting Person Date

Michael R. Murphy 12/01/2010

**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).
- 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.
- This transaction was executed in multiple trades at prices ranging from \$8.44 to \$8.50. 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."
- 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.

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.

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