Murphy Michael R Form 4 July 19, 2012

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

2. Issuer Name and Ticker or Trading

OMB

OMB APPROVAL

Number:

3235-0287 January 31,

Expires:

5. Relationship of Reporting Person(s) to

Issuer

2005

burden hours per

Estimated average response... 0.5

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

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

Symbol

1(b).

(Print or Type Responses)

Discovery Group I, LLC

1. Name and Address of Reporting Person *

may continue.

See Instruction

	_	Caro	Cardiovascular Systems Inc [CSII]			[CSII]	(Check all applicable)			
(Last) 191 N. WA 1685,	(First) ACKER DRIVE S	(Mor	3. Date of Earliest Transaction (Month/Day/Year) 07/17/2012				DirectorX 10% Owner Officer (give title Other (specify below)			
	(Street) O, IL 60606	Filed	4. If Amendment, Date Original Filed(Month/Day/Year)				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)	(City) (State) (Zip) 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, any (Month/Day/Yea	Code	iomr Dispo (Instr. 3,	curities Acquired (A) sposed of (D) . 3, 4 and 5) (A) or unt (D) Price		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	07/17/2012		S	4,730 (1)	D	\$ 10.2545 (3)	1,770,416	I	By Discovery Equity Partners, L.P. (1)	
Common Stock	07/17/2012		S	514 (2)	D	\$ 10.2545 (3)	257,242	I	By Pleiades Investment Partners - D, L.P (2)	

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

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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. Transacti Code (Instr. 8)	5. orNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		ate	7. Title a Amount Underly Securitie (Instr. 3	of ing es	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Owne Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title N	lumber		

Reporting Owners

Reporting Owner Name / Address		Relationsh				
	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 Partner	07/19/	2012				
**Signature of Reporting Person	Date	e				
Daniel J. Donoghue	07/19/	2012				
**Signature of Reporting Person	Date	e				
Michael R. Murphy	07/19/	07/19/2012				

2 Reporting Owners

**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
- 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.
- This transaction was executed in multiple trades at prices ranging from \$10.25 \$10.27. 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.

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