Murphy Michael R Form 4 October 25, 2011

## FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

OMB Number:

3235-0287

Expires:

5. Relationship of Reporting Person(s) to

(Check all applicable)

Issuer

January 31, 2005

0.5

burden hours per

**OMB APPROVAL** 

response...

Estimated average

if no longer subject to Section 16. Form 4 or Form 5 obligations may continue.

Check this box

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

2. Issuer Name and Ticker or Trading

Cardiovascular Systems Inc [CSII]

3. Date of Earliest Transaction

Symbol

1(b).

(Last)

(Print or Type Responses)

Discovery Group I, LLC

1. Name and Address of Reporting Person \*

(First)

(Middle)

See Instruction

191 N. WACKER DRIVE SUITE 1685,			(Month/Day/Year) 10/21/2011				Director			
			mendment, Date Original Month/Day/Year)				6. Individual or Joint/Group Filing(Check Applicable Line) Form filed by One Reporting Person			
CHICAGO, IL 60606							_X_ Form filed by More than One Reporting Person			
(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 r) (Instr. 8)	4. Securi onAcquired Disposed (Instr. 3,	l (A) of (D) 4 and (A) or	))	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		
Common Stock	10/21/2011		P	1,103 (1)	A	\$8	1,795,651	I	By Discovery Equity Partners, L.P. (1)	
Common Stock	10/25/2011		P	8,930 (1)	A	\$8	1,804,581	I	By Discovery Equity Partners, L.P. (1)	
Common Stock	10/25/2011		Р	1,070 (2)	A	\$8	260,708	I	By Pleiades Investment	

Partners - D, L.P (2)

(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. Transacti Code (Instr. 8)	5. orNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	<b>.</b>	ate	7. Titl Amou Under Securi (Instr.	nt of lying	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Owno Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

# **Reporting Owners**

\*\*Signature of Reporting Person

Reporting Owner Name / Address	Relationships						
<b></b>	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 Member	10/25/2011						

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Date

#### Edgar Filing: Murphy Michael R - Form 4

Daniel J. DOnoghue 10/25/2011

\*\*Signature of Reporting Person Date

Michael R. Murphy 10/25/2011

\*\*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).
- Discovery Group I, LLC is the General Partner of Discovery Equity Partners, L.P., which is a discretionary client of the reporting person,
- (1) 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
- (2) 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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