

Flaherty James E
 Form 4
 January 19, 2012

FORM 4

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

OMB APPROVAL

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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 *
 Flaherty James E

2. Issuer Name and Ticker or Trading Symbol
 Cardiovascular Systems Inc [CSII]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

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

___ Director ___ 10% Owner
 Officer (give title below) ___ Other (specify below)

651 CAMPUS DRIVE

01/17/2012

Chief Administrative Officer

(Street)

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

6. Individual or Joint/Group Filing (Check Applicable Line)
 Form filed by One Reporting Person
 ___ Form filed by More than One Reporting Person

ST. PAUL, MN 55112

(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, 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 Ownership (Instr. 4)
			Code	V	Amount		
					(A) or (D)		
					Price		
Common Stock	01/17/2012		S		5,000 (1)	D	Indirect Beneficial Ownership (Instr. 4)
					\$ 10.0116		
					119,638	D	
					(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)

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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. 3)	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 8.83					(3) 12/18/2016		Common Stock	9,381
Stock Option (right to buy)	\$ 8.83					(3) 04/17/2017		Common Stock	25,233
Stock Option (right to buy)	\$ 7.9					(3) 08/06/2017		Common Stock	22,645
Stock Option (right to buy)	\$ 12.15					(3) 12/11/2017		Common Stock	32,350
Stock Option (right to buy)	\$ 8.75					(3) 03/02/2019		Common Stock	10,999
Stock Option (right to buy)	\$ 9.28					(3) 11/15/2014		Common Stock	4,852
Stock Option (right to buy)	\$ 12.37					(3) 06/30/2015		Common Stock	16,175
Stock Option (right to buy)	\$ 12.37					(3) 11/07/2015		Common Stock	7,764

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Flaherty James E 651 CAMPUS DRIVE ST. PAUL, MN 55112			Chief Administrative Officer	

Signatures

/s/ Scott J. Dorfman as Attorney-in-Fact for James E. Flaherty pursuant to Power of Attorney filed herewith.

01/18/2012

__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) The sale of the underlying shares reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on February 7, 2011.
The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$10.00 to \$10.06 inclusive. The reporting person undertakes to provide Cardiovascular Systems, Inc., any security holder of Cardiovascular Systems, Inc. or the staff of the Securities and Exchange Commission upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.
- (2)
- (3) Fully exercisable.

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.