Flaherty James E Form 4 August 28, 2012

FORM 4

OMB APPROVAL

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

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16.

January 31, Expires: 2005

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Estimated average burden hours per response... 0.5

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).

Common

Stock

08/24/2012

(Print or Type Responses)

1. Name and A Flaherty Jan	Address of Reporting mes E	Person * 2. Iss Symbo	er Name and Ticker or Trading	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
			ovascular Systems Inc [CSII]				
(Last)	(First) (1	Middle) 3. Date	of Earliest Transaction				
651 CAMP	US DRIVE	(Month 08/24	/Day/Year) 2012	Director 10% OwnerX Officer (give title Other (specify below) Chief Administrative Officer			
	(Street)	4. If A	nendment, Date Original	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			
ST. PAUL,	MN 55112	Filed(N	onth/Day/Year)				
(City)	(State)	(Zip) Ta	ble I - Non-Derivative Securities Ac	quired, Disposed of, or Beneficially Owned			
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, i any (Month/Day/Year	Code (Instr. 3, 4 and 5)	5. Amount of Securities Ownership Indirect Beneficially Form: Direct Beneficial Owned (D) or Ownership Indirect (I) (Instr. 4) Reported (Instr. 4) Transaction(s) (Instr. 3 and 4)			

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

 $S^{(1)}$

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

145,736

D

\$

(2)

9.0296

D

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. Transactic Code (Instr. 8)	5. orNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)			7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Price Deriva Securit (Instr. :
				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					<u>(3)</u>	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	

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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 previously filed

08/28/2012

**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) In connection with the vesting and delivery of restricted stock, and pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on May 29, 2012, on each date shares were sold and the net proceeds were used to pay required withholding taxes.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$8.98 to \$9.20 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.
- (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.

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