Flaherty James E Form 4 February 18, 2009

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Washington, D.C. 20549

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

SECURITIES

obligations may continue. See Instruction 1(b).

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)

(Last)

(City)

Stock

1. Name and Address of Reporting Person * Flaherty James E

(First)

(State)

2. Issuer Name and Ticker or Trading

Symbol

5. Relationship of Reporting Person(s) to

OMB APPROVAL

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

Estimated average

burden hours per

Issuer

CARDIOVASCULAR SYSTEMS INC [CSII]

3. Date of Earliest Transaction Director 10% Owner

X_ Officer (give title _X_ Other (specify (Month/Day/Year) below)

below) 02/16/2009 Chief Administrative Officer / Mbr of 13(d)

grp owng >10%

(Check all applicable)

(Street) 4. If Amendment, Date Original

(Middle)

(Zip)

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

ST. PAUL, MN 55112

651 CAMPUS DRIVE

1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3) any (Month/Day/Year)

3. 4. Securities Acquired 5. Amount of Transaction(A) or Disposed of Code (D)(Instr. 8) (Instr. 3, 4 and 5)

Securities Beneficially Owned Following Reported

6. Ownership 7. Nature of Form: Direct Indirect Beneficial (D) or Indirect (I) Ownership (Instr. 4) (Instr. 4)

(A) Transaction(s)

or (Instr. 3 and 4)

Code V Amount (D) Price

Common 20,000 Α

02/16/2009 M

\$6 65,500 D

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. Transactic Code (Instr. 8)	5. Number of ctionDerivative Securities 8) 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)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 6	02/16/2009		M		20,000	<u>(1)</u>	02/16/2009	Common Stock	20,000
Stock Option (right to buy)	\$ 6						<u>(1)</u>	11/15/2009	Common Stock	7,500
Stock Option (right to buy)	\$ 8						<u>(1)</u>	06/30/2010	Common Stock	25,000
Stock Option (right to buy)	\$ 8						<u>(1)</u>	11/07/2010	Common Stock	12,000
Stock Option (right to buy)	\$ 5.71						(2)	12/18/2016	Common Stock	14,500
Stock Option (right to buy)	\$ 5.71						(3)	04/17/2017	Common Stock	39,000
Stock Option (right to buy)	\$ 5.11						<u>(4)</u>	08/06/2017	Common Stock	35,000
Stock Option (right to buy)	\$ 7.86						<u>(5)</u>	12/11/2017	Common Stock	50,000

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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 Mbr of 13(d) grp owng >10%

Signatures

/s/ Carlye S. Landin as Attorney-in-Fact for James E. Flaherty pursuant to Power of Attorney previously filed.

02/18/2009

**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) Fully exercisable.
- (2) Exercisable: 4,833 on 12/19/07 and 12/19/08 and 4,834 on 12/19/09.
- (3) Exercisable: 13,000 on 4/18/08, 4/18/09 and 4/18/10.
- (4) Exercisable: 11,667 on 8/7/08 and 8/7/09 and 11,666 on 8/7/10.
- (5) Exercisable: 25,000 on the first anniversary of the closing of the Company's merger with Replidyne, Inc. and 25,000 on the second anniversary of the merger.

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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