Flaherty James E Form 4/A September 18, 2009

FORM 4

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

OMB Number: 3235-0287

Estimated average

OMB APPROVAL

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Expires: January 31, 2005

Form 4 or Form 5 obligations may continue.

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

burden hours per response... 0.5

See Instruction 1(b).

Common

Stock

(Print or Type Responses)

Symbol	C	5. Relationship of Reporting Person(s) to Issuer			
Cardiovascular S	ystems Inc [CSII]	(Check all applicable)			
3. Date of Earliest Tr	ansaction				
(Month/Day/Year)		Director	10%	6 Owner	
03/02/2009		X Officer (give title Other (specify below)			
		Unier Administrative Officer			
4. If Amendment, Da	te Original	6. Individual or Joint/Group Filing(Check			
Filed(Month/Day/Year))	Applicable Line)			
03/04/2009		_X_ Form filed by One Reporting Person			
		Form filed by More than One Reporting Person			
Table I - Non-D	of, or Beneficial	neficially Owned			
emed 3.	4. Securities	5. Amount of	6. Ownership	7. Nature of	
on Date, if Transacti	TransactionAcquired (A) or		Form: Direct	Indirect	
Code	Disposed of (D)	Beneficially	(D) or	Beneficial	
/Day/Year) (Instr. 8)	(Instr. 3, 4 and 5)	Owned	Indirect (I)	Ownership	
		Following	(Instr. 4)	(Instr. 4)	
	(A)	Reported Transaction(s) (Instr. 3 and 4)			
i	Symbol Cardiovascular Sy 3. Date of Earliest Tr. (Month/Day/Year) 03/02/2009 4. If Amendment, Da Filed(Month/Day/Year) 03/04/2009 Table I - Non-D temed 3. ion Date, if Transactic Code	Cardiovascular Systems Inc [CSII] 3. Date of Earliest Transaction (Month/Day/Year) 03/02/2009 4. If Amendment, Date Original Filed(Month/Day/Year) 03/04/2009 Table I - Non-Derivative Securities According to the According Transaction Acquired (A) or Code Disposed of (D) n/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) (A)	Symbol Cardiovascular Systems Inc [CSII] 3. Date of Earliest Transaction (Month/Day/Year) 03/02/2009 4. If Amendment, Date Original Filed(Month/Day/Year) 03/04/2009 Table I - Non-Derivative Securities Acquired, Disposed of the Date, if TransactionAcquired (A) or Code Disposed of (D) Applicable Line) Securities 5. Amount of Securities 5. Amount of Securities Code Disposed of (D) Beneficially Applicable Line) Securities 5. Amount of Securities Code Disposed of (D) Beneficially Applicable Line) Securities Code Disposed of (D) Beneficially Applicable Line)	Symbol Cardiovascular Systems Inc [CSII] 3. Date of Earliest Transaction (Month/Day/Year)	

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

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SEC 1474

(9-02)

(Instr. 3 and 4)

D

42,378

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

Code V Amount (D) Price

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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. 5. Number of TransactionDerivative Code Securities (Instr. 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	(4	A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 9.28							<u>(1)</u>	11/15/2009	Common Stock	4,852
Stock Option (right to buy)	\$ 12.37							<u>(1)</u>	06/30/2010	Common Stock	16,175
Stock Option (right to buy)	\$ 12.37							<u>(1)</u>	11/07/2010	Common Stock	7,764
Stock Option (right to buy)	\$ 8.83							(2)	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							<u>(4)</u>	08/06/2017	Common Stock	22,645
Stock Option (right to buy)	\$ 12.15							<u>(5)</u>	12/11/2017	Common Stock	32,350
Stock Option (right to buy)	\$ 8.75	03/02/2009		A	10,	999		<u>(6)</u>	03/02/2019	Common Stock	10,999

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/ John R. Remakel as Attorney-in-Fact for James E. Flaherty pursuant to Power of Attorney previously filed.

09/18/2009

**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: 3,127 on 12/19/07, 12/19/08 and 12/19/09.
- (3) Exercisable: 8,411 on 4/18/08, 4/18/09 and 4/18/10.
- (4) Exercisable: 7,549 on 8/7/08 and 7,548 on 8/7/09 and 8/7/10.
- (5) Exercisable: 16,175 on 2/25/10 and 2/25/11.
- (6) Exercisable: 5,500 on 3/2/10 and 5,499 on 3/2/11.

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