

Flaherty James E
Form 4
August 20, 2012

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
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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)
651 CAMPUS DRIVE

(Street)

3. Date of Earliest Transaction (Month/Day/Year)
08/16/2012

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
Chief Administrative Officer

ST. PAUL, MN 55112

(City) (State) (Zip)

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

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 Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| | | | | Code V | Amount | Price | |
| Common Stock | 08/16/2012 | | S ⁽¹⁾ | 1,462 D | \$ 8.7296 (2) | 153,453 | D |
| Common Stock | 08/17/2012 | | S ⁽¹⁾ | 1,701 D | \$ 8.7507 (3) | 151,752 | D |
| Common Stock | 08/20/2012 | | S ⁽¹⁾ | 1,645 D | \$ 8.971 (4) | 150,107 | 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)

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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. 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 | | | | | (5) 12/18/2016 | | Common Stock | 9,381 |
| Stock Option (right to buy) | \$ 8.83 | | | | | (5) 04/17/2017 | | Common Stock | 25,233 |
| Stock Option (right to buy) | \$ 7.9 | | | | | (5) 08/06/2017 | | Common Stock | 22,645 |
| Stock Option (right to buy) | \$ 12.15 | | | | | (5) 12/11/2017 | | Common Stock | 32,350 |
| Stock Option (right to buy) | \$ 8.75 | | | | | (5) 03/02/2019 | | Common Stock | 10,999 |
| Stock Option (right to buy) | \$ 9.28 | | | | | (5) 11/15/2014 | | Common Stock | 4,852 |
| Stock Option (right to buy) | \$ 12.37 | | | | | (5) 06/30/2015 | | Common Stock | 16,175 |

| | | | | | |
|--------------------------------------|----------|-----|------------|-----------------|-------|
| Stock Option (right to buy) | \$ 12.37 | (5) | 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 previously filed | 08/20/2012 |
| __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, shares sold on each date, as well as the shares previously reported as sold on August 15, 2012, 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 \$8.60 to \$8.83 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) The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$8.62 to \$8.90 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) The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$8.79 to \$9.06 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.
 - (4) 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.