

Doughty Brian
Form 4
July 20, 2009

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
Expires: January 31, 2005
Estimated average burden hours per response... 0.5

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 *
Doughty Brian

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

3. Date of Earliest Transaction (Month/Day/Year)
07/16/2009

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

VP of Commerical Operations

(Street)
ST. PAUL, MN 55112

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

(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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
| | | | | (A) or (D) Price | | | |
| Common Stock | 07/16/2009 | | A | 20,510 A \$ 0 | 43,680 | 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. 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 | | | | | (1) | 12/18/2016 | Common Stock | 45,290 |
| Stock Option (right to buy) | \$ 8.83 | | | | | (2) | 04/17/2017 | Common Stock | 3,235 |
| Stock Option (right to buy) | \$ 7.9 | | | | | (3) | 06/11/2017 | Common Stock | 16,175 |
| Stock Option (right to buy) | \$ 7.9 | | | | | (4) | 08/06/2017 | Common Stock | 6,470 |
| Stock Option (right to buy) | \$ 12.15 | | | | | (5) | 12/11/2017 | Common Stock | 32,350 |
| Stock Option (right to buy) | \$ 8.75 | | | | | (6) | 03/01/2019 | Common Stock | 7,764 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|-----------------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Doughty Brian 651 CAMPUS DRIVE ST. PAUL, MN 55112 | | | VP of Commerical Operations | |

Signatures

/s/ John R. Remakel as Attorney-in-Fact for Brian Doughty pursuant to Power of Attorney previously filed.

07/20/2009

__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) Exercisable: 15,096 on 12/19/07 and 15,097 on 12/19/08 and 12/19/09.
- (2) Exercisable: 1,079 on 4/18/08 and 1,078 on 4/18/09 and 4/18/10.
- (3) Exercisable: 5,391 on 6/12/08 and 5,392 on 6/12/09 and 6/12/10.
- (4) Exercisable: 2,156 on 8/7/08 and 2,157 on 8/7/09 and 8/7/10.
- (5) Exercisable: 16,175 on 2/25/10 and 2/25/11.
- (6) Exercisable: 3,882 on 3/2/10 and 3/2/11.

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.