

Doughty Brian
Form 4
February 27, 2009

FORM 4

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

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

OMB APPROVAL

OMB
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(Print or Type Responses)

1. Name and Address of Reporting Person *
Doughty Brian

2. Issuer Name **and** Ticker or Trading
Symbol
CARDIOVASCULAR SYSTEMS
INC [NONE]

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)
02/25/2009

____ Director ____ 10% Owner
____X____ Officer (give title ____ Other (specify
below) below)
VP of Marketing

ST. PAUL, MN 55112

4. If Amendment, Date Original
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

(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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock	02/25/2009		D		4,900	D	11 0

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

**Persons who respond to the collection of
information contained in this form are not
required to respond unless the form
displays a currently valid OMB control
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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. Pr Deriv Secu (Instr
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Option (right to buy)	(2)	02/25/2009		D	70,000	(2)	(2)	Common Stock	70,000	\$
Stock Option (right to buy)	(2)	02/25/2009		D	5,000	(2)	(2)	Common Stock	5,000	\$
Stock Option (right to buy)	(2)	02/25/2009		D	25,000	(2)	(2)	Common Stock	25,000	\$
Stock Option (right to buy)	(2)	02/25/2009		D	10,000	(2)	(2)	Common Stock	10,000	\$
Stock Option (right to buy)	(2)	02/25/2009		D	50,000	(2)	(2)	Common Stock	50,000	\$

Reporting Owners

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

Signatures

/s/ Carlye S. Landin as Attorney-in-Fact for Brian Doughty pursuant to Power of Attorney previously filed.

02/27/2009

 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).

Disposed of pursuant to a merger agreement among the issuer, Responder Merger Sub, Inc. and Replidyne, Inc. (now known as

- (1) "Cardiovascular Systems, Inc."), pursuant to which each share of the issuer's common stock was converted into 0.647 shares of common stock of Replidyne, Inc.

Disposed of pursuant to a merger agreement among issuer, Responder Merger Sub, Inc. and Replidyne, Inc. (now known as

"Cardiovascular Systems, Inc."), pursuant to which each of the issuer's stock options was assumed by Replidyne, Inc. and became

- (2) exercisable to purchase shares of Replidyne, Inc. common stock; each share covered by the issuer's options was converted into 0.647 shares of common stock of Replidyne, Inc., and the exercise price of each option was adjusted by dividing the pre-merger exercise price by 0.647 and rounding up to the nearest cent.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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