Doughty Brian Form 3 December 29, 2008

# FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL

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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

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF

**SECURITIES** 

30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting 2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Person \* Statement CARDIOVASCULAR SYSTEMS INC [CSII] A Doughty Brian (Month/Day/Year) 12/29/2008 (Last) (First) (Middle) 4. Relationship of Reporting 5. If Amendment, Date Original Person(s) to Issuer Filed(Month/Day/Year) 651 CAMPUS DRIVE (Check all applicable) (Street) 6. Individual or Joint/Group Filing(Check Applicable Line) 10% Owner Director \_X\_ Form filed by One Reporting \_X\_\_ Officer Other Person (give title below) (specify below) ST. PAUL, MNÂ 55112 Form filed by More than One VP of Marketing Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Beneficially Owned 2. Amount of Securities 4. Nature of Indirect Beneficial 1. Title of Security Beneficially Owned Ownership Ownership (Instr. 4) (Instr. 4) Form: (Instr. 5) Direct (D) or Indirect (I) (Instr. 5) D Â Common Stock 4,900 Reminder: Report on a separate line for each class of securities beneficially SEC 1473 (7-02) 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

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

currently valid OMB control number.

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of	5. Ownership Form of Derivative	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of	Derivative Security	Security: Direct (D) or Indirect	

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				Shares		(I) (Instr. 5)	
Stock Option (right to buy)	(1)	12/18/2016	Common Stock	70,000	\$ 5.71	D	Â
Stock Option (right to buy)	(2)	04/17/2017	Common Stock	5,000	\$ 5.71	D	Â
Stock Option (right to buy)	(3)	06/11/2017	Common Stock	25,000	\$ 5.11	D	Â
Stock Option (right to buy)	(4)	08/06/2017	Common Stock	10,000	\$ 5.11	D	Â
Stock Option (right to buy)	(5)	12/11/2017	Common Stock	50,000	\$ 7.86	D	Â

# **Reporting Owners**

Reporting Owner Name / Address	Relationships					
1 0	Director	10% Owner	Officer	Other		
Doughty Brian 651 CAMPUS DRIVE ST. PAUL, MN 55112	Â	Â	VP of Marketing	Â		

## **Signatures**

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

12/29/2008

\*\*Signature of Reporting Person

Date

### **Explanation of Responses:**

- \* If the form is filed by more than one reporting person, see Instruction 5(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: 23,333 on 12/19/07 and 12/19/08 and 23,334 on 12/19/09.
- (2) Exercisable: 1,667 on 4/18/08 and 4/18/09 and 1,666 on 4/18/10.
- (3) Exercisable: 8,333 on 6/12/08 and 6/12/09 and 8,334 on 6/12/10.
- (4) Exercisable: 3,333 on 8/7/08 and 8/7/09 and 3,334 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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