

Howe Roger J
 Form 4
 August 11, 2009

FORM 4

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

OMB APPROVAL

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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 *
 Howe Roger J

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)
 07/16/2009

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

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)
Common Stock				(A) or (D) Price	26,850	I	By Limited Liability Partnership (1)

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)
				Code	V (A) (D)	Date Exercisable Expiration Date	Title Amount Number Shares
Stock Option (right to buy)	\$ 9.28					12/01/2004 11/30/2009	Common Stock 12,940
Stock Option (right to buy)	\$ 12.37					12/01/2005 11/30/2010	Common Stock 9,705
Stock Option (right to buy)	\$ 8.83					12/19/2006 12/18/2016	Common Stock 12,940
Stock Option (right to buy)	\$ 7.9					10/09/2007 10/08/2017	Common Stock 4,321
Stock Option (right to buy)	\$ 11.38					11/13/2007 11/12/2017	Common Stock 15,088
Stock Option (right to buy)	\$ 12.15					12/31/2007 12/30/2012	Common Stock 121,490
Warrant	\$ 9.28					10/25/2005 11/16/2009	Common Stock 8,411
Restricted Stock Units	(2)					(2) (2)	Common Stock 5,714
Restricted Stock	(3)	07/16/2009		A	11,628	(3) (3)	Common Stock 11,628

Units

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Howe Roger J 651 CAMPUS DRIVE ST. PAUL, MN 55112	X			

Signatures

/s/ John R. Remakel as Attorney-in-Fact for Roger J. Howe pursuant to Power of Attorney previously filed.

08/11/2009

__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) Shares held by Sonora Web LLLP, of which Dr. Howe is the General Partner.

Each restricted stock unit represents the right to receive a payment from CSI equal in value to the market price per share of CSI common

(2) stock on the date of payment and shall be payable in cash beginning six months following the termination of each director's board membership.

Each restricted stock unit represents the right to receive a payment from CSI equal in value to the market price per share of CSI common

(3) stock on the date of payment, and shall be payable in cash beginning six months following the termination of each director's board membership; provided, however, that the restricted stock units vest in equal quarterly amounts of 2,907 on each of 9/30/2009, 12/31/2009, 3/31/2010 and 6/30/2010.

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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