

Howe Roger J
 Form 3
 December 29, 2008

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

OMB APPROVAL

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INITIAL STATEMENT OF 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 * | | 2. Date of Event Requiring Statement | 3. Issuer Name and Ticker or Trading Symbol | |
| Â Howe Roger J | | (Month/Day/Year) | CARDIOVASCULAR SYSTEMS INC [CSII] | |
| (Last) | (First) | (Middle) | 4. Relationship of Reporting Person(s) to Issuer | 5. If Amendment, Date Original Filed(Month/Day/Year) |
| 651 CAMPUS DRIVE | | 12/29/2008 | | |
| (Street) | | | (Check all applicable) | |
| ST. PAUL,Â MNÂ 55112 | | | <input checked="" type="checkbox"/> Director | <input type="checkbox"/> 10% Owner |
| (City) | (State) | (Zip) | <input type="checkbox"/> Officer | <input checked="" type="checkbox"/> Other |
| | | | (give title below) | (specify below) |
| | | | Mbr of 13(d) grp owng > 10% | |
| | | | 6. Individual or Joint/Group Filing(Check Applicable Line) | |
| | | | <input checked="" type="checkbox"/> Form filed by One Reporting Person | |
| | | | <input type="checkbox"/> Form filed by More than One Reporting Person | |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common Stock | 41,500 | I | By Limited Liability Limited Partnership ⁽¹⁾ |

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

SEC 1473 (7-02)

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 number.

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

| 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 Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---|--|--|---|
| | | Title | | | |

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| | Date Exercisable | Expiration Date | | Amount or Number of Shares | | or Indirect (I) (Instr. 5) | |
|-----------------------------|------------------|-----------------|--------------|----------------------------|---------|----------------------------|---|
| Stock Option (right to buy) | 12/01/2004 | 11/30/2009 | Common Stock | 20,000 | \$ 6 | D | Â |
| Stock Option (right to buy) | 12/01/2005 | 11/30/2010 | Common Stock | 15,000 | \$ 8 | D | Â |
| Stock Option (right to buy) | 12/19/2006 | 12/18/2016 | Common Stock | 20,000 | \$ 5.71 | D | Â |
| Stock Option (right to buy) | 10/09/2007 | 10/08/2017 | Common Stock | 6,680 | \$ 5.11 | D | Â |
| Stock Option (right to buy) | 11/13/2007 | 11/12/2017 | Common Stock | 23,320 | \$ 7.36 | D | Â |
| Stock Option (right to buy) | 12/31/2007 | 12/30/2012 | Common Stock | 187,775 | \$ 7.86 | D | Â |
| Warrant | 10/25/2005 | 11/16/2009 | Common Stock | 13,000 | \$ 6 | I | By Limited Liability Limited Partnership ⁽¹⁾ |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-----------------------------|
| | Director | 10% Owner | Officer | Other |
| Howe Roger J 651 CAMPUS DRIVE ST. PAUL, MN 55112 | Â X | Â | Â | Mbr of 13(d) grp owng > 10% |

Signatures

/s/ Carlye S. Landin as Attorney-in-Fact for Roger J. Howe 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) Shares held by Sonora Web LLLP, of which Dr. Howe is the General Partner.

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.