

Thatcher Robert J
 Form 3
 February 25, 2009

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 Thatcher Robert J | | (Month/Day/Year) | REPLIDYNE INC [CSII] | |
| (Last) | (First) | (Middle) | 4. Relationship of Reporting Person(s) to Issuer | 5. If Amendment, Date Original Filed(Month/Day/Year) |
| | | 02/25/2009 | | |
| 651 CAMPUS DRIVE | | | (Check all applicable) | 6. Individual or Joint/Group Filing(Check Applicable Line) |
| | (Street) | | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner | <input checked="" type="checkbox"/> Form filed by One Reporting Person |
| ST. PAUL,Â MNÂ 55112 | | | <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other | <input type="checkbox"/> Form filed by More than One Reporting Person |
| (City) | (State) | (Zip) | Executive VP | |

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 | 8,008 | D | Â |

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) or Indirect | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---|--|--|---|
| | Date Exercisable | Title | Amount or Number of | | |

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| | | | | Shares | | (I) (Instr. 5) | |
|-----------------------------|------------|------------|--------------|--------|----------|-------------------|---|
| Stock Option (right to buy) | Â (1) | 10/16/2010 | Common Stock | 64,700 | \$ 12.37 | D | Â |
| Stock Option (right to buy) | Â (2) | 12/18/2016 | Common Stock | 7,764 | \$ 8.83 | D | Â |
| Stock Option (right to buy) | Â (3) | 04/17/2017 | Common Stock | 29,762 | \$ 8.83 | D | Â |
| Stock Option (right to buy) | Â (4) | 08/06/2017 | Common Stock | 22,645 | \$ 7.9 | D | Â |
| Stock Option (right to buy) | Â (5) | 12/11/2017 | Common Stock | 32,350 | \$ 12.15 | D | Â |
| Warrant | 02/25/2009 | 02/24/2014 | Common Stock | 3,045 | \$ 8.83 | D | Â |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|----------------|-------|
| | Director | 10% Owner | Officer | Other |
| Thatcher Robert J 651 CAMPUS DRIVE ST. PAUL, MN 55112 | Â | Â | Â Executive VP | Â |

Signatures

/s/ John R. Remakel as Attorney-in-Fact for Robert J. Thatcher pursuant to Power of Attorney filed herewith.

02/25/2009

__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) Fully exercisable.
- (2) Exercisable: 2,588 on 12/19/07, 12/19/08 and 12/19/09.
- (3) Exercisable: 9,920 on 4/18/08 and 9,921 on 4/18/09 and 4/18/10.
- (4) Exercisable: 7,549 on 8/7/08 and 7,548 on 8/7/09 and 8/7/10.
- (5) Exercisable: 16,175 on 2/25/10 and 2/25/11.

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.