

Petrucci Gary M
 Form 4
 February 25, 2009

FORM 4

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

OMB APPROVAL

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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 *
 Petrucci Gary M

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
 Officer (give title below) Other (specify below)
 Mbr of 13(d) grp owng >10%

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)
				(A) or (D) Price			
Common Stock					323,325	D	
Common Stock					50,000	I	By 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 of Number of Shares
Stock Option (right to buy)	\$ 6					12/01/2004 11/30/2009	Common Stock 20,000
Stock Option (right to buy)	\$ 8					12/01/2005 11/30/2010	Common Stock 15,000
Stock Option (right to buy)	\$ 5.71					12/19/2006 12/18/2016	Common Stock 30,000
Stock Option (right to buy)	\$ 5.11					10/09/2007 10/08/2017	Common Stock 6,680
Stock Option (right to buy)	\$ 7.36					11/13/2007 11/12/2017	Common Stock 38,320
Stock Option (right to buy)	\$ 7.86					12/31/2007 12/30/2012	Common Stock 366,161
Series A Conv Preferred Stock	(2)					(2) (2)	Common Stock 36,314
Warrant	\$ 6					11/16/2004 11/16/2009	Common Stock 20,000
Warrant	\$ 5.71					07/19/2006 07/19/2011	Series A Conv Preferred Stock 5,157

Warrant	\$ 5.71	02/25/2009		J ⁽³⁾	13,810	02/25/2009	02/24/2014	Common Stock	13,810
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Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Petrucci Gary M 651 CAMPUS DRIVE ST. PAUL, MN 55112		X		Mbr of 13(d) grp owng >10%

Signatures

/s/ Carlye S. Landin as Attorney-in-Fact for Gary M. Petrucci pursuant to Power of Attorney previously filed.

02/25/2009

__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 Applecrest Partners LTD Partnership, of which Mr. Petrucci is the General Partner.
- (2) Each share of Series A convertible preferred stock is convertible at any time, at the holder's election, into 1.01 shares of common stock and has no expiration date.
- (3) Holders of approximately 68% of the outstanding preferred stock entered into an agreement with the Company whereby effective immediately prior to the effective time of the merger of the Company with Replidyne, Inc., all preferred stock will convert into shares of common stock. The warrants were issued pro rata to each preferred shareholder, based on the percentage of preferred stock held, in consideration for entering into such conversion agreement.

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.