

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

**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	49,172	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)	07/16/2011	Common Stock	71,170	\$ 8.83	D	Â
Stock Option (right to buy)	Â (2)	08/14/2011	Common Stock	38,820	\$ 8.83	D	Â
Stock Option (right to buy)	Â (3)	02/14/2012	Common Stock	349,380	\$ 8.83	D	Â
Stock Option (right to buy)	Â (4)	06/11/2017	Common Stock	90,580	\$ 7.9	D	Â
Stock Option (right to buy)	Â (5)	12/11/2017	Common Stock	242,625	\$ 12.15	D	Â

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Martin David 651 CAMPUS DRIVE ST. PAUL, MN 55112	Â X	Â	Â President and CEO	Â

## Signatures

/s/John R. Remakel as Attorney-in-Fact for David L. Martin 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) Exercisable: 3,235 each month beginning 8/17/06.
- (2) Exercisable in three equal installments of 12,940 on 8/15/07, 8/15/08 and 8/15/09.
- (3) Exercisable: 9,705 each month beginning 3/15/07.
- (4) Exercisable: 30,194 on 6/12/08 and 30,193 on each of 6/12/09 and 6/12/10.
- (5) Exercisable: 121,313 on 2/25/10 and 121,312 on 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.