

REPLIDYNE INC  
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 NELSON GLEN D		(Month/Day/Year)	REPLIDYNE INC [CSII]	
(Last)	(First)	(Middle)	02/25/2009	
651 CAMPUS DRIVE		4. Relationship of Reporting Person(s) to Issuer		5. If Amendment, Date Original Filed(Month/Day/Year)
(Street)		(Check all applicable)		6. Individual or Joint/Group Filing(Check Applicable Line)
ST. PAUL,Â MNÂ 55112		<input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner		<input checked="" type="checkbox"/> Form filed by One Reporting Person
(City)	(State)	(Zip)	<input type="checkbox"/> Officer <input type="checkbox"/> Other (specify below)	
				<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	38,820	D	Â
Common Stock	246,525	I	Held by LLC <sup>(1)</sup>

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	5. Ownership Form of Derivative Security:	6. Nature of Indirect Beneficial Ownership (Instr. 5)
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	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Security	Direct (D) or Indirect (I) (Instr. 5)	
Stock Option (right to buy)	12/01/2004	11/30/2009	Common Stock	6,470	\$ 9.28	D	Â
Stock Option (right to buy)	12/01/2005	11/30/2010	Common Stock	9,705	\$ 12.37	D	Â
Stock Option (right to buy)	12/19/2006	12/18/2016	Common Stock	12,940	\$ 8.83	D	Â
Stock Option (right to buy)	10/09/2007	10/08/2017	Common Stock	4,322	\$ 7.9	D	Â
Stock Option (right to buy)	11/13/2007	11/12/2017	Common Stock	15,087	\$ 11.38	D	Â
Warrant	07/19/2006	07/19/2011	Common Stock	12,131	\$ 8.78	I	Held by LLC <sup>(1)</sup>
Warrant	09/12/2008	09/12/2013	Common Stock	53,916	\$ 9.28	I	Held by LLC <sup>(1)</sup>
Warrant	02/25/2009	02/25/2014	Common Stock	56,558	\$ 8.83	I	Held by LLC <sup>(1)</sup>

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
NELSON GLEN D 651 CAMPUS DRIVE ST. PAUL, MN 55112	Â X	Â	Â	Â

## Signatures

/s/ John R. Remakel as Attorney-in-Fact for Glen D. Nelson 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) Shares are held by GDN Holdings, LLC, of which Dr. Nelson is the sole owner.

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.