

REPLIDYNE INC  
Form 3  
June 27, 2006

**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 Christoffersen Ralph E	(Month/Day/Year) 06/27/2006	REPLIDYNE INC [RDYN]
(Last) (First) (Middle)		
		4. Relationship of Reporting Person(s) to Issuer
		5. If Amendment, Date Original Filed(Month/Day/Year)

MORGENTHALER  
VENTURES,Â 4430  
ARAPAHOE AVENUE, SUITE  
220  
  
(Street)

(Check all applicable)

Director  10% Owner  
 Officer  Other  
(give title below) (specify below)

BOULDER,Â COÂ 80303  
  
(City) (State) (Zip)

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 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)
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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)	
Series A Preferred Stock	06/27/2006	∞ <sup>(1)</sup>	Common Stock	2,000,000	\$ <sup>(1)</sup>	I	By Morgenthaler Partners VII, L.P. <sup>(2)</sup>
Series C Preferred Stock	06/27/2006	∞ <sup>(1)</sup>	Common Stock	6,400,000	\$ <sup>(1)</sup>	I	By Morgenthaler Partners VII, L.P. <sup>(2)</sup>
Series D Preferred Stock	06/27/2006	∞ <sup>(1)</sup>	Common Stock	1,874,163	\$ <sup>(1)</sup>	I	By Morgenthaler Partners VII, L.P. <sup>(2)</sup>
Warrant (right to buy)	06/27/2006	06/27/2011	Common Stock	80,001 <sup>(3)</sup>	\$ 1.25 <sup>(3)</sup>	I	By Morgenthaler Partners VII, L.P. <sup>(2)</sup>

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Christoffersen Ralph E MORGENTHALER VENTURES 4430 ARAPAHOE AVENUE, SUITE 220 BOULDER, CO 80303	∞ X	∞	∞	∞

## Signatures

/s/ Ralph E. Christoffersen 06/27/2006

\*\*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).

The Issuer's preferred stock will automatically be converted into Common Stock upon the closing of the Issuer's initial public offering.  
 (1) The number of shares does not reflect the automatic conversion of each share of Series A, C and D Preferred Stock into 0.20391517 shares of Common Stock upon the closing of the initial public offering.

(2) The Reporting Person is a member of Morgenthaler Management Partners VII, LLC, the managing general partner of Morgenthaler Partners VII, L.P. As such, the Reporting Person shares voting and investment power over the shares held by Morgenthaler Partners VII, L.P. and may be deemed to have indirect beneficial ownership of such shares. The Reporting Person disclaims beneficial ownership of such shares held by Morgenthaler Partners VII, L.P. except to his proportionate pecuniary interest therein.

(3) The warrants to purchase shares of Series C Preferred Stock will automatically be converted into warrants to purchase shares of Common Stock upon the closing of the Issuer's initial public offering. The number of shares and exercise price do not reflect the automatic conversion of each share of Series C Preferred Stock into 0.20391517 shares of Common Stock upon the closing of the initial public offering

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.