

REPLIDYNE INC  
Form 4/A  
July 06, 2006

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**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 \*  
HEALTHCARE VENTURES VI LP

(Last) (First) (Middle)

HEALTHCARE VENTURES  
LLC, 44 NASSAU STREET

(Street)

PRINCETON, NJ 08542

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
REPLIDYNE INC [RDYN]

3. Date of Earliest Transaction  
(Month/Day/Year)  
07/03/2006

4. If Amendment, Date Original Filed(Month/Day/Year)  
07/05/2006

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

6. Individual or Joint/Group Filing(Check Applicable Line)  
\_\_\_ Form filed by One Reporting Person  
\_X\_ 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 Ownership (Instr. 4)
Common Stock	07/03/2006		C	V 3,166,863 A	\$ 0 (1) 3,612,362 (2)	I (3)	and Direct

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

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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 Number Shares
Series A Convertible Preferred	\$ 0 <sup>(4)</sup>	07/03/2006		C	8,250,300	<u>(4)</u>	<u>(4)</u>	Common Stock	8,250, <u>(4)</u>
Series C Convertible Preferred	\$ 0 <sup>(5)</sup>	07/03/2006		C	7,280,001	<u>(5)</u>	<u>(5)</u>	Common Stock	7,280, <u>(5)</u>

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
HEALTHCARE VENTURES VI LP HEALTHCARE VENTURES LLC 44 NASSAU STREET PRINCETON, NJ 08542		X		
HEALTHCARE PARTNERS VI LP HEALTHCARE VENTURES LLC 44 NASSAU STREET PRINCETON, NJ 08542		X		
CAVANAUGH JAMES H HEALTHCARE VENTURES LLC 44 NASSAU STREET PRINCETON, NJ 08542		X		
LITTLECHILD JOHN W 55 CAMBRIDGE PARKWAY SUITE 301 CAMBRIDGE, MA 02142		X		
WERNER HAROLD R HEALTHCARE VENTURES LLC 44 NASSAU STREET PRINCETON, NJ 08542		X		
Mirabelli Christopher 55 CAMBRIDGE PARKWAY SUITE 301 CAMBRIDGE, MA 02142		X		
AGUIAR ERIC HEALTHCARE VENTURES LLC		X		

44 NASSAU STREET  
PRINCETON, NJ 08542

CROUSE WILLIAM W  
HEALTHCARE VENTURES LLC  
44 NASSAU STREET  
PRINCETON, NJ 08542

X

## Signatures

/s/Jeffrey Steinberg, Administrative Partner, HealthCare Ventures VI, L.P.	07/05/2006
__Signature of Reporting Person	Date
/s/Jeffrey Steinberg, Administrative Partner for HealthCare Partners VI, L.P.	07/05/2006
__Signature of Reporting Person	Date
/s/Jeffrey Steinberg, Attorney-in-Fact for James H. Cavanaugh	07/05/2006
__Signature of Reporting Person	Date
/s/Jeffrey Steinberg, Attorney-in-Fact for John Littlechild	07/05/2006
__Signature of Reporting Person	Date
/s/Jeffrey Steinberg, Attorney-in-Fact for Harold Werner	07/05/2006
__Signature of Reporting Person	Date
/s/Jeffrey Steinberg, Attorney-in-Fact for Christopher Mirabelli	07/05/2006
__Signature of Reporting Person	Date
/s/Jeffrey Steinberg, Attorney-in-Fact for Eric Aguiar	07/05/2006
__Signature of Reporting Person	Date
/s/Jeffrey Steinberg, Attorney-in-Fact for William Crouse	07/05/2006
__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) Not Applicable

(2) Includes 445,499 shares of the Issuer's common stock issued to HealthCare Ventures VI, L.P. ("HCVVI") in satisfaction of accumulated dividends on the Reporting Person's Series A and Series C Convertible Preferred Stock.

(3) These securities are owned by HCVVI. These securities are indirectly beneficially owned by HealthCare Partners VI, L.P. ("HCPVI"), the General Partner of HCVVI, and each of James Cavanaugh, Harold Werner, John Littlechild, Christopher Mirabelli, Augustine Lawlor, William Crouse and Eric Aguiar, the general partners of HCPVI. Drs. Cavanaugh, Mirabelli and Aguiar and Messrs. Werner, Littlechild, Crouse and Lawlor disclaim beneficial ownership of those securities in which they do not have a pecuniary interest and this report shall not be deemed an admission that they are the beneficial owners of these securities for purposes of Section 16 except to the extent of their pecuniary interest therein.

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- (4) These securities automatically converted into 1,682,361 shares of the Issuer's Common Stock on July 3, 2006, the closing of the initial public offering of the Issuer. The conversion of the Series A Convertible Preferred Stock gives effect to the Issuer's 1 for 4.904 reverse stock split.

- (5) These securities automatically converted into 1,484,502 shares of the Issuer's Common Stock on July 3, 2006, the closing of the initial public offering of the Issuer. The conversion of the Series C Convertible Preferred Stock gives effect to the Issuer's 1 for 4.904 reverse stock split.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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