

HEALTHCARE PARTNERS VI LP  
 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 <b>and</b> Ticker or Trading Symbol                              |  |
| Â HEALTHCARE VENTURES VI LP                |         | (Month/Day/Year)                     | REPLIDYNE INC [RDYN]  |  |
| (Last)                                     | (First) | 06/27/2006                           |   |  |
|  |         |                                      | 4. Relationship of Reporting Person(s) to Issuer                                | 5. If Amendment, Date Original Filed(Month/Day/Year)                             |
| HEALTHCARE VENTURES LLC,Â 44 NASSAU STREET |         |                                      | (Check all applicable)  |  |
| (Street)                                   |         |                                      | <input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner | 6. Individual or Joint/Group Filing(Check Applicable Line)                       |
| PRINCETON,Â NJÂ 08542                      |         |                                      | <input type="checkbox"/> Officer (give title below)                             | <input type="checkbox"/> Other (specify below)                                   |
| (City)                                     | (State) | (Zip)                                |   | <input type="checkbox"/> Form filed by One Reporting Person                      |
|  |         |                                      |   | <input checked="" 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                    | 0   | D  | Â   |

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

SEC 1473 (7-02)

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**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 Convertible Preferred <u>(1)</u> | Â <u>(1)</u>     | Â <u>(1)</u>    | Common Stock | 8,250,300 <u>(1)</u>       | \$ 0     | I <u>(3)</u>                          | and Direct |
| Series C Convertible Preferred <u>(2)</u> | Â <u>(2)</u>     | Â <u>(2)</u>    | Common Stock | 7,280,001 <u>(2)</u>       | \$ 0     | I <u>(3)</u>                          | and Direct |

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |         |       |
|---|---------------|-----------|---------|-------|
|   | Director      | 10% Owner | Officer | Other |
| HEALTHCARE VENTURES VI LP<br>HEALTHCARE VENTURES LLC<br>44 NASSAU STREET<br>PRINCETON,Â NJÂ 08542 | Â             | Â X       | Â       | Â     |
| HEALTHCARE PARTNERS VI LP<br>HEALTHCARE VENTURES LLC<br>44 NASSAU STREET<br>PRINCETON,Â NJÂ 08542 | Â             | Â X       | Â       | Â     |
| CAVANAUGH JAMES H<br>HEALTHCARE VENTURES LLC<br>44 NASSAU STREET<br>PRINCETON,Â NJÂ 08542         | Â             | Â X       | Â       | Â     |
| LITTLECHILD JOHN W<br>55 CAMBRIDGE PARKWAY<br>SUITE 301<br>CAMBRIDGE,Â MAÂ 02142                  | Â             | Â X       | Â       | Â     |
| WERNER HAROLD R<br>HEALTHCARE VENTURES LLC<br>44 NASSAU STREET<br>PRINCETON,Â NJÂ 08542           | Â             | Â X       | Â       | Â     |
| Mirabelli Christopher<br>55 CAMBRIDGE PARKWAY<br>SUITE 301<br>CAMBRIDGE,Â MAÂ 02142               | Â             | Â X       | Â       | Â     |
| AGUIAR ERIC<br>HEALTHCARE VENTURES LLC<br>44 NASSAU STREET<br>PRINCETON,Â NJÂ 08542               | Â             | Â X       | Â       | Â     |
| CROUSE WILLIAM W<br>HEALTHCARE VENTURES LLC<br>44 NASSAU STREET<br>PRINCETON,Â NJÂ 08542          | Â             | Â X       | Â       | Â     |

## Signatures

|  |            |
|--|------------|
| /s/Jeffrey Steinberg, Administrative Partner, HealthCare Ventures VI, L.P. | 06/27/2006 |
| **Signature of Reporting Person  | Date       |
| /s/Jeffrey Steinberg, Administrative Partner, HealthCare Partners VI, L.P. | 06/27/2006 |
| **Signature of Reporting Person  | Date       |
| /s/Jeffrey Steinberg, Attorney-in-Fact for James H. Cavanaugh              | 06/27/2006 |
| **Signature of Reporting Person  | Date       |
| /s/Jeffrey Steinberg, Attorney-in-Fact for John Littlechild                | 06/27/2006 |
| **Signature of Reporting Person  | Date       |
| /s/Jeffrey Steinberg, Attorney-in-Fact for Harold Werner                   | 06/27/2006 |
| **Signature of Reporting Person  | Date       |
| /s/Jeffrey Steinberg, Attorney-in-Fact for Christopher Mirabelli           | 06/27/2006 |
| **Signature of Reporting Person  | Date       |
| /s/Jeffrey Steinberg, Attorney-in-Fact for Eric Aguiar                     | 06/27/2006 |
| **Signature of Reporting Person  | Date       |
| /s/Jeffrey Steinberg, Attorney-in-Fact for William Crouse                  | 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).
- (1) These shares will automatically convert into 1,682,361 shares of Common Stock of the Issuer on the date of the closing of the initial public offering of the Issuer's Common Stock.
  - (2) These shares will automatically convert into 1,484,502 shares of Common Stock of the Issuer on the date of the closing of the initial public offering of the Issuer's Common Stock.
- These securities are owned by HealthCare Ventures VI, L.P. ("HCVVI"). These securities are indirectly owned by HealthCare Partners VI, L.P. ("HCPVI"), the General Partner of HCVVI, and each of James Cavanaugh, Harold Werner, John Littlechild, Christopher Mirabelli, William Crouse, Augustine Lawlor and Eric Aguiar, general partners of HCPVI. Drs. Cavanaugh, Mirabelli and Aguiar and Messrs. Werner, Littlechild, Lawlor and Crouse 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.

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.