

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 and 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 |
| | | | <input type="checkbox"/> Officer | <input type="checkbox"/> Other |
| | | | (give title below) | (specify below) |
| PRINCETON,Â NJÂ 08542 | | | | 6. Individual or Joint/Group Filing(Check Applicable Line) |
| (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)

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 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 HEALTHCARE VENTURES LLC 44 NASSAU STREET PRINCETON,Â NJÂ 08542 | Â | Â X | Â | Â |
| HEALTHCARE PARTNERS VI LP HEALTHCARE VENTURES LLC 44 NASSAU STREET PRINCETON,Â NJÂ 08542 | Â | Â X | Â | Â |
| CAVANAUGH JAMES H HEALTHCARE VENTURES LLC 44 NASSAU STREET PRINCETON,Â NJÂ 08542 | Â | Â X | Â | Â |
| LITTLECHILD JOHN W 55 CAMBRIDGE PARKWAY SUITE 301 CAMBRIDGE,Â MAÂ 02142 | Â | Â X | Â | Â |
| WERNER HAROLD R HEALTHCARE VENTURES LLC 44 NASSAU STREET PRINCETON,Â NJÂ 08542 | Â | Â X | Â | Â |
| Mirabelli Christopher 55 CAMBRIDGE PARKWAY SUITE 301 CAMBRIDGE,Â MAÂ 02142 | Â | Â X | Â | Â |
| AGUIAR ERIC HEALTHCARE VENTURES LLC 44 NASSAU STREET PRINCETON,Â NJÂ 08542 | Â | Â X | Â | Â |
| CROUSE WILLIAM W HEALTHCARE VENTURES LLC 44 NASSAU STREET PRINCETON,Â NJÂ 08542 | Â | Â X | Â | Â |

