

Janjic Nebojsa  
Form 4  
March 09, 2007

**FORM 4**

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

OMB APPROVAL

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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 \*  
Janjic Nebojsa

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)  
1450 INFINITE DRIVE  
  
(Street)

3. Date of Earliest Transaction (Month/Day/Year)  
03/08/2007

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
Chief Scientific Officer, Sec.

LOUISVILLE, CO 80027  
  
(City) (State) (Zip)

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

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 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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
|                                 |                                      |  | Code                           | V   | Amount  | (D)  | Price                             |

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

**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.**

SEC 1474  
(9-02)

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

| 1. Title of Derivative Security | 2. Conversion or Exercise | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any | 4. Transaction Code | 5. Number of Derivative Securities | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) |
|---------------------------------|---------------------------|--------------------------------------|-----------------------------------|---------------------|------------------------------------|--|---|
|---------------------------------|---------------------------|--------------------------------------|-----------------------------------|---------------------|------------------------------------|--|---|

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| (Instr. 3)                           | Price of<br>Derivative<br>Security | (Month/Day/Year) | (Instr. 8) | Acquired (A)<br>or Disposed of<br>(D)<br>(Instr. 3, 4,<br>and 5) | Code | V | (A)    | (D) | Date Exercisable          | Expiration<br>Date | Title           | Amount<br>or<br>Number<br>of Share |
|--------------------------------------|------------------------------------|------------------|------------|--|------|---|--------|-----|---------------------------|--------------------|-----------------|------------------------------------|
| Stock<br>Option<br>(right to<br>buy) | \$ 5.35                            | 03/08/2007       | 03/08/2007 | A  |      |   | 90,000 |     | 03/08/2008 <sup>(1)</sup> | 03/08/2017         | Common<br>Stock | 90,000                             |

## Reporting Owners

| Reporting Owner Name / Address                                | Relationships |           |                                |       |
|---|---------------|-----------|--------------------------------|-------|
|   | Director      | 10% Owner | Officer                        | Other |
| Janjic Nebojsa<br>1450 INFINITE DRIVE<br>LOUISVILLE, CO 80027 |               |           | Chief Scientific Officer, Sec. |       |

## Signatures

|  |            |
|--|------------|
| /s/ Laura M. Medina,<br>Attorney-in-Fact | 03/09/2007 |
| **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).

Grant to Reporting Person of a stock option under the Issuer's 2006 Equity Incentive Plan. The option vests over a four year period, with  
**(1)** 25% of such option vesting on the one year anniversary of the Vesting Commencement Date and the remaining 75% of such option vesting in equal monthly installments over the next 36 months. The option expires ten years after the date of grant.

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.