

Janjic Nebojsa  
Form 4  
March 09, 2007

**FORM 4**

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

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

## OMB APPROVAL

OMB  
Number: 3235-0287  
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2005  
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response... 0.5

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Janjic Nebojsa

(Last) (First) (Middle)

1450 INFINITE DRIVE

(Street)

LOUISVILLE, CO 80027

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading  
Symbol

REPLIDYNE INC [RDYN]

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

03/08/2007

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

5. Relationship of Reporting Person(s) to  
Issuer

(Check all applicable)

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

Chief Scientific Officer, Sec.

6. Individual or Joint/Group Filing(Check  
Applicable Line)  
\_\_X\_\_ 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<br>Security<br>(Instr. 3) | 2. Transaction Date<br>(Month/Day/Year) | 2A. Deemed<br>Execution Date, if<br>any<br>(Month/Day/Year) | 3. Transaction<br>Code<br>(Instr. 8) | 4. Securities<br>Acquired (A) or<br>Disposed of (D)<br>(Instr. 3, 4 and 5) | 5. Amount of<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction(s)<br>(Instr. 3 and 4) | 6. Ownership<br>Form: Direct<br>(D) or Indirect<br>(I)<br>(Instr. 4) | 7. Nature of<br>Indirect<br>Beneficial<br>Ownership<br>(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  
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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<br>Derivative<br>Security | 2. Conversion<br>or Exercise | 3. Transaction Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Date, if<br>any | 4. Transaction<br>Code | 5. Number of<br>Derivative<br>Securities | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) | 7. Title and Amount of<br>Underlying Securities<br>(Instr. 3 and 4) |
|---------------------------------------|------------------------------|-----------------------------------------|-----------------------------------------|------------------------|------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------|
|---------------------------------------|------------------------------|-----------------------------------------|-----------------------------------------|------------------------|------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------|

## Edgar Filing: Janjic Nebojsa - Form 4

| (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) |        | Date Exercisable | Expiration<br>Date        | Title      | Amount<br>or<br>Number<br>of Shares |        |
|--------------------------------------|------------------------------------|------------------|------------|------------------------------------------------------------------|--------|------------------|---------------------------|------------|-------------------------------------|--------|
|                                      |                                    |                  | Code       | V                                                                | (A)    | (D)              |                           |            |                                     |        |
| 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,  
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.

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