

SMITH MARK L  
Form 4  
March 07, 2008

**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 \*  
SMITH MARK L

(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)  
03/05/2008

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 below) \_\_\_ Other (specify below)  
CFO and Treasurer

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 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 Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership Indirect Beneficial Ownership (Instr. 4)
				(A) or (D)	Code V Amount (D) Price		

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

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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 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 Underlying Security (Instr. 3 and 4)
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(Instr. 3)	Price of Derivative Security	(Month/Day/Year)	(Instr. 8)	Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount Number of Shares
Stock Option (right to buy)	\$ 1.86	03/05/2008	03/05/2008	A			100,000		04/05/2008 <sup>(1)</sup>	03/04/2018	Common Stock	100,000
Stock Option (right to buy)	\$ 1.86	03/05/2008	03/05/2008	A			100,000		<sup>(2)</sup>	03/04/2018	Common Stock	100,000

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
SMITH MARK L 1450 INFINITE DRIVE LOUISVILLE, CO 80027			CFO and Treasurer	

## Signatures

/s/ Laura M. Medina,  
Attorney-in-Fact

03/07/2008

\*\*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) Grant to Reporting Person of a stock option under the Issuer's 2006 Equity Incentive Plan. The option vests in equal monthly installments over 48 months beginning March 5, 2008. The option is exercisable three years following the Reporting Person's termination of service with the Issuer. The option expires ten years after the date of grant.

(2) Grant to Reporting Person of a stock option under the Issuer's 2006 Equity Incentive Plan. The option vests in full, subject to the sole discretion of the Issuer's Board of Directors, immediately prior to the consummation of either (a) a strategic alliance or partnership with an unaffiliated third party that relates to the development and commercialization of faropenem or (b) another strategic transaction to which the Issuer is a party. The option is exercisable three years following the Reporting Person's termination of service with the Issuer. 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.