

REPLIDYNE INC  
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 Echols Roger		(Month/Day/Year)	REPLIDYNE INC [RDYN]	
(Last)	(First)	06/27/2006		
1450 INFINITE DRIVE			4. Relationship of Reporting Person(s) to Issuer	5. If Amendment, Date Original Filed(Month/Day/Year)
(Street)			(Check all applicable)	
LOUISVILLE,Â COÂ 80027			<input type="checkbox"/> Director <input type="checkbox"/> 10% Owner	6. Individual or Joint/Group Filing(Check Applicable Line)
(City)	(State)	(Zip)	<input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Form filed by One Reporting Person
			(give title below) (specify below)	<input type="checkbox"/> Form filed by More than One Reporting Person
			Chief Medical Officer	

**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	101,957 <sup>(1)</sup>	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 Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Title	Amount or Number of		
	Expiration Date				

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				Shares		(I) (Instr. 5)	
Stock Option (right to buy)	06/27/2006 <sup>(1)</sup>	12/02/2014	Common Stock	101,957	\$ 0.61	D	Â
Stock Option (right to buy)	06/27/2006 <sup>(2)</sup>	01/19/2016	Common Stock	65,252	\$ 3.19	D	Â

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Echols Roger 1450 INFINITE DRIVE LOUISVILLE, CO 80027	Â	Â	Â Chief Medical Officer	Â

## Signatures

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

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) 25% of the total 203,914 shares originally subject to the option vest one year from the vesting commencement date with the remaining shares vesting in equal monthly installments over the next 36 months; shares subject to repurchase pursuant to the foregoing vesting schedule.

(2) 12.5% of the shares vest on the one year anniversary of the vesting commencement date; 37.5% of the shares vest in equal monthly installments over 36 months beginning one month following the one year anniversary of the vesting commencement date; and 50% of the shares vest upon the earlier to occur of (A) the fourth anniversary of the vesting commencement date; and (B) following the Company's consummation of its initial public offering, such day on which the closing price, as reported on the Nasdaq National Market quotation system, of the Company's Common Stock equals or exceeds a milestone price as set forth in the option 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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