REPLIDYNE INC Form 4 May 31, 2007

FORM 4

Check this box

if no longer

subject to

Section 16.

Form 4 or

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

OMB APPROVAL OMB

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue.

30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading **Echols Roger** Issuer Symbol REPLIDYNE INC [RDYN] (Check all applicable) (First) (Middle) (Last) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner X_ Officer (give title Other (specify 1450 INFINITE DRIVE 05/23/2007 below) Chief Medical Officer (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person

LOUISVILLE, CO 80027

(State)

(Zip)

(City)

(3)	()	1 able 1 - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									
1.Title of	2. Transaction Date	2A. Deemed	3.	4. Securitie	es		5. Amount of	6. Ownership	7. Nature of		
Security	(Month/Day/Year)	Execution Date, if	TransactionAcquired (A) or			Securities	Form: Direct	Indirect			
(Instr. 3)		any	Code	Disposed of (D)			Beneficially	(D) or	Beneficial		
		(Month/Day/Year)	(Instr. 8)	(Instr. 3, 4	and 5	5)	Owned	Indirect (I)	Ownership		
							Following	(Instr. 4)	(Instr. 4)		
				(4)			Reported				
					(A)		Transaction(s)				
			Code V	Amount	or (D)	Price	(Instr. 3 and 4)				
Common Stock	05/23/2007	05/23/2007	S	7,445 (1)	D	\$6	79,512	D			

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

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Person

Demirative Counities Assumed Disposed of an Demoficially Or

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

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1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactic Code (Instr. 8)	5. onNumber of Derivative Securities Acquired (A) or Disposed of (D)		ate	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	of ng s	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Owne Follo Repo Trans (Instr
				Code V	(Instr. 3, 4, and 5) (A) (D)	Date Exercisable	Expiration Date	or Title Nu of	umber		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Echols Roger

1450 INFINITE DRIVE Chief Medical Officer

LOUISVILLE, CO 80027

Signatures

/s/ Laura M. Medina, Attorney-in-Fact 05/29/2007

**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).
- (1) The sales reported in this Form 4 were effected pursuant to a previously reported Rule 10b5-1 trading plan adopted by the Reporting Person on December 14, 2006.

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.

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