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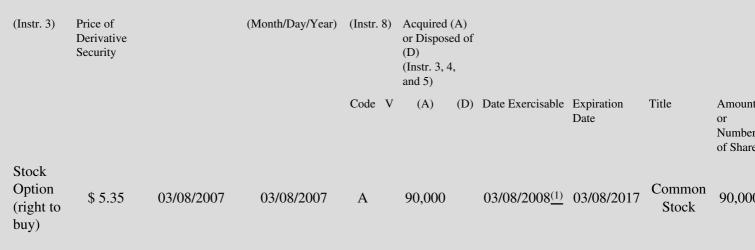
Form 4									
March 09, 2								OMB A	PPROVAL
FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549								3235-0287	
Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b). TATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP 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						Estimated burden hou response	Expires:January 31, 2005Estimated average burden hours per response0.5		
(Print or Type	Responses)								
1. Name and Address of Reporting Person <u>*</u> SMITH MARK L			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			3. Date of Earliest Transaction(Month/Day/Year)03/08/2007				Director 10% Owner X Officer (give title Other (specify below) below) CFO and Treasurer		
LOUISVIL		4. If Amendment, Date Original Filed(Month/Day/Year)			6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(State)	(Zip)	Tal	ole I - Non-	Derivative	Securities A	Acquired, Disposed	of, or Beneficia	llv Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deema Execution any (Month/Da	ed Date, if	3. Transactio Code (Instr. 8)	4. Securit onAcquired Disposed (Instr. 3, 4 Amount	ies (A) or of (D)	5. Amount of Securities Beneficially Owned	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect
Reminder: Rep	port on a separate line	for each cla	ass of sec	urities bene	Perso inforn requir	ns who res nation cont ed to resp lys a curre	or indirectly. spond to the colle tained in this form ond unless the for ntly valid OMB co	are not rm	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	2.	3. Transaction Date	3A. Deemed	4.	5. Number of	6. Date Exercisable and	7. Title and Amount o
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orDerivative	Expiration Date	Underlying Securities
Security	or Exercise		any	Code	Securities	(Month/Day/Year)	(Instr. 3 and 4)

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Reporting Owners

Reporting Owner Name / Address	Relationships					
1	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		03/09/2007				

**Signature of Reporting Person

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).

Date

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.