

DUYK GEOFFREY M  
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 \*

DUYK GEOFFREY M  
(Last) (First) (Middle)

2. Date of Event Requiring Statement

(Month/Day/Year)  
06/27/2006

3. Issuer Name and Ticker or Trading Symbol  
REPLIDYNE INC [RDYN]

4. Relationship of Reporting Person(s) to Issuer

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

(Check all applicable)

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

C/O TEXAS PACIFIC GROUP, 301 COMMERCE STREET, SUITE 3300

(Street)

FORT WORTH, TX 76102

(City) (State) (Zip)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**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)

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

SEC 1473 (7-02)

**Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.**

**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)

6. Nature of Indirect Beneficial Ownership (Instr. 5)

Date Exercisable Expiration Date

Title Amount or Number of

				Shares	or Indirect (1) (Instr. 5)		
Stock Option (Right to Purchase)	06/27/2007 <sup>(1)</sup>	06/27/2016	Common Stock	16,313	\$ <sup>(2)</sup>	D	Â

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
DUYK GEOFFREY M C/O TEXAS PACIFIC GROUP 301 COMMERCE STREET, SUITE 3300 FORT WORTH, TX 76102	Â X	Â	Â	Â

## Signatures

/s/ Dr. Geoffrey M. Duyk                      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) One-third of the options will vest on July 27, 2007 and the remaining two-thirds will vest in equal monthly installments in the subsequent 24-month period.
- (2) The exercise price for the options will be determined on the date hereof after the filing of this Form 3.

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.