REPLIDYNE INC

Form 4

September 12, 2006

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

OMB APPROVAL

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obligations

may continue.

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

See Instruction 1(b).

(Last)

(Print or Type Responses)

1. Name and Address of Reporting Person * MITCHELL DANIEL J

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

REPLIDYNE INC [RDYN]

3. Date of Earliest Transaction

(Check all applicable)

SEQUEL VENTURE PARTNERS,

(First)

(Middle)

(Month/Day/Year) 09/11/2006

_X__ Director 10% Owner Officer (give title Other (specify

L.L.C., 4430 ARAPAHOE **AVENUE, SUITE 220**

> (Street) 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

BOULDER, CO 80303

(City)	(State)	(Zip) Tab	le I - Non-	Derivative	e Secu	rities A	Acquired, Dispos	ed of, or Ben	eficially Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. SecurionAcquired Disposed (Instr. 3,	(A) o of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	09/11/2006		P	1,000	A	\$ 10	15,211	I	By The Daniel J. Mitchell Trust
Common Stock							1,412,065	I	By Sequel Limited Partnership III
Common Stock							39,240	I	By Sequel Entrepreneurs' Fund III, L.P.

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

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SEC 1474 (9-02)

> 9. Nu Deriv Secur Bene Own Follo Repo Trans

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.	6. Date Exerci	sable and	7. Title	and	8. Price of
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transact	iorNumber	Expiration Da	te	Amoun	nt of	Derivative
Security	or Exercise		any	Code	of	(Month/Day/Y	(ear)	Underl	ying	Security
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securit	ies	(Instr. 5)
	Derivative				Securities			(Instr. 3	3 and 4)	
	Security				Acquired					
					(A) or					
					Disposed					
					of (D)					
					(Instr. 3,					
					4, and 5)					
									Amount	
						Date	Expiration Date		or	
						Exercisable			Number	
									of	
				Code V	$^{\prime}$ (A) (D)				Shares	

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

MITCHELL DANIEL J SEQUEL VENTURE PARTNERS, L.L.C. 4430 ARAPAHOE AVENUE, SUITE 220 BOULDER, CO 80303

X

Signatures

/s/ Laura M. Medina, Attorney-in-Fact 09/12/2006

**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).
- The Reporting Person is a manager of Sequel Venture Partners III, L.L.C., the general partner of Sequel Limited Partnership III ("SLP III") and Sequel Entrepreneurs' Fund III, L.P. ("SEF III"). As such, the Reporting Person shares voting and investment power over the shares held by SLP III and SEF III and may be deemed to have indirect beneficial ownership of such shares. The Reporting Person disclaims beneficial ownership of such shares held by SLP III and SEF III except to his proportionate pecuniary interest therein.

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.

Reporting Owners 2