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 <u>*</u> MITCHELL DANIEL J				2. Date of Event RequiringStatement(Month/Day/Year)	3. Issuer Name and Ticker or Trading Symbol REPLIDYNE INC [RDYN]		
	(Last)	(First)	(Middle)	06/27/2006	4. Relationship of Reporting Person(s) to Issuer	5. If Amendment, Date Filed(Month/Day/Year)	

(Check all applicable)

(give title below) (specify below)

_X__ Director

Officer

10% Owner

_ Other

SEQUEL VENTURE PARTNERS, 4430 ARAPAHOE AVENUE, SUITE 220

(Street)

BOULDER, COÂ 80303

					Reporting Person			
(City)	(State)	(Zip)	Table I - Non-Deriva	Table I - Non-Derivative Securities Beneficially Owned				
1.Title of Secu (Instr. 4)	ırity		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: Rep owned directly	· •		ass of securities beneficially	SEC 1473 (7-0	2)			
		•	l to the collection of I 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	2. Date Exercisable and	3. Title and Amount of	4.	5.	6. Nature of Indirect
Security	Expiration Date	Securities Underlying	Conversion	Ownership	Beneficial Ownership
(Instr. 4)	(Month/Day/Year)	Derivative Security	or Exercise	Form of	(Instr. 5)
		(Instr. 4)	Price of	Derivative	
			Derivative	Security:	

2005

0.5

e Original

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

Form filed by More than One

Person

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	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Security	Direct (D) or Indirect (I) (Instr. 5)	
Series A Preferred Stock	06/27/2006	(1)	Common Stock	1,945,920	\$ <u>(1)</u>	Ι	By Sequel Limited Partnership III (2)
Series A Preferred Stock	06/27/2006	(<u>1)</u>	Common Stock	54,080	\$ <u>(1)</u>	Ι	By Sequel Entrepreneurs' Fund III, L.P. (2)
SeriesC Preferred Stock	06/27/2006	(1)	Common Stock	3,113,472	\$ <u>(1)</u>	Ι	By Sequel Limited Partnership III (2)
Series C Preferred Stock	06/27/2006	(<u>1)</u>	Common Stock	86,528	\$ <u>(1)</u>	Ι	By Sequel Entrepreneurs' Fund III, L.P. (2)
Series D Preferred Stock	06/27/2006	(1)	Common Stock	1,128,824	\$ <u>(1)</u>	Ι	By Sequel Limited Partnership III (2)
Series D Preferred Stock	06/27/2006	(1)	Common Stock	31,372	\$ <u>(1)</u>	Ι	By Sequel Entrepreneurs' Fund III, L.P. (2)
Warrant (right to buy)	06/27/2006	06/27/2011	Series C Preferred Stock	38,919 <u>(3)</u>	\$ 1.25 <u>(3)</u>	Ι	By Sequel Limited Partnership III (2)
Warrant (right to buy)	06/27/2006	06/27/2011	Series C Preferred Stock	1,083 <u>(3)</u>	\$ 1.25 <u>(3)</u>	Ι	By Sequel Entrepreneurs' Fund III, L.P. (2)

Reporting Owners

Reporting Owner Name / Address		Relationships					
	Director	10% Owner	Officer	Other			
MITCHELL DANIEL J SEQUEL VENTURE PARTNERS 4430 ARAPAHOE AVENUE, SUITE 220 BOULDER, CO 80303	X	Â	Â	Â			
Signatures							
/s/ Laura M. Medina, Attorney-in-Fact	06/27/200	6					
<u>**Signature of Reporting Person</u>	Date						

**Signature of Reporting Person

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) The Issuer's preferred stock will automatically be converted into Common Stock upon the closing of the Issuer's initial public offering. The number of shares does not reflect the automatic conversion of each share of Series A, C and D Preferred Stock into 0.20391517

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shares of Common Stock upon the closing of the initial public offering.

The Reporting Person is a manager of Sequel Venture Partners III, L.L.C., the general partner of Sequel Limited Partnership III and Sequel Entrepreneurs' Fund III, L.P. As such, the Reporting Person shares voting and investment power over the shares held by Sequel

 (2) Limited Partnership III and Sequel Entrepreneurs' Fund III, L.P. and may be deemed to have indirect beneficial ownership of such shares. The Reporting Person disclaims beneficial ownership of such shares held by Sequel Limited Partnership III and Sequel Entrepreneurs' Fund III, L.P. except to his proportionate pecuniary interest therein.

The warrants to purchase shares of Series C Preferred Stock will automatically be converted into warrants to purchase shares of Common Stock upon the closing of the Issuer's initial public offering. The number of shares and exercise price do not reflect the automatic

(3) Stock upon the closing of the issuer's initial public ortering. The number of shares and excretise pirce do not reflect the automatic conversion of each share of Series C Preferred Stock into 0.20391517 shares of Common Stock upon the closing of the initial public offering.

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.