

IDERA PHARMACEUTICALS, INC.
 Form 3
 September 14, 2006

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0104
 Expires: January 31, 2005
 Estimated average burden hours per response... 0.5

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 * Â Sullivan Timothy M (Last) (First) (Middle) 345 VASSAR STREET (Street) CAMBRIDGE,Â MAÂ 02139 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 06/07/2006	3. Issuer Name and Ticker or Trading Symbol IDERA PHARMACEUTICALS, INC. [IDP]	4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other (give title below) (specify below) VP Development Programs	5. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person
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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)
Common Stock	122,379	D	Â

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly. SEC 1473 (7-02)

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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) or Indirect	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Title	Amount or Number of		

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				Shares		(I) (Instr. 5)	
Employee Stock Option	03/25/2002	03/25/2012	Common Stock	60,000	\$ 1.41	D	Â
Employee Stock Option	12/12/2002	12/12/2012	Common Stock	30,000	\$ 0.78	D	Â
Employee Stock Option	12/16/2003	12/16/2013	Common Stock	45,000	\$ 1.12	D	Â
Employee Stock Option	11/30/2004	11/30/2014	Common Stock	250,000	\$ 0.52	D	Â
Employee Stock Option	12/21/2004	11/30/2014	Common Stock	220,000	\$ 0.52	D	Â
Employee Stock Optioni	12/15/2005	12/15/2015	Common Stock	100,000	\$ 0.53	D	Â

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Sullivan Timothy M 345 VASSAR STREET CAMBRIDGE, MA 02139	Â	Â	Â VP Development Programs	Â

Signatures

Timothy M. Sullivan 09/13/2006

**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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure.

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