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IDERA PHARMACEUTICALS, INC. Form 424B3 December 07, 2006

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IDERA PHARMACEUTICALS, INC. Prospectus Supplement No. 1 dated December 6, 2006 to the Prospectus Dated May 5, 2006

The information in this prospectus supplement concerning the selling stockholders supplements the statements set forth under the caption Selling Stockholders in the prospectus. This prospectus supplement should be read in conjunction with the prospectus, which is required to be delivered with this prospectus supplement.

Investing in our common stock involves a high degree of risk. See Risk Factors beginning on page 2 of the prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus supplement is truthful or complete. Any representation to the contrary is a criminal offense.

Selling Stockholders

On April 25, 2006, Baker Biotech Fund II, L.P., Baker Biotech Fund II (Z), L.P., Baker Biotech Fund III, L.P., and Baker Biotech Fund III (Z), L.P. agreed to a plan of merger to form Baker Brothers Life Sciences, L.P. In connection with the merger, Baker Biotech Fund II, L.P., Baker Biotech Fund II (Z), L.P., Baker Biotech Fund III, L.P., and Baker Biotech Fund III (Z), L.P. transferred, in the aggregate, 1,396,986 shares of our common stock and warrants to purchase 1,047,740 shares of our common stock to Baker Brothers Life Sciences, L.P. The table below sets forth, to our knowledge, the beneficial ownership of the selling stockholders as of September 30, 2006. This information updates and supercedes the information contained under the heading Selling Stockholders in the prospectus dated May 5, 2006 and reflects a one-for-eight reverse stock split of our issued and outstanding common stock that we effected on June 29, 2006.

We do not know when or in what amounts a selling stockholder may offer shares for sale. The selling stockholders may not sell any or all of the shares offered by the prospectus, as supplemented by this prospectus supplement. Because the selling stockholders may offer all or some of the shares pursuant to this offering, and because there are currently no agreements, arrangements or understandings with respect to the sale of any of the shares, we cannot estimate the number of shares that will be held by the selling stockholders after completion of this offering. For purposes of this table, however, we have assumed that, after completion of the

offering, none of the shares covered by the prospectus, as supplemented by this prospectus supplement, will be held by the selling stockholders.

Beneficial ownership is determined in accordance with the rules of the Securities and Exchange Commission, and includes voting or investment power with respect to shares. Shares of common stock issuable upon exercise of warrants that are exercisable within 60 days after September 30, 2006 are deemed outstanding for computing the percentage ownership of the person holding the warrants but are not deemed outstanding for computing the percentage ownership of any other person. Unless otherwise indicated below, to our knowledge, all persons named in the table have sole voting and investment power with respect to the shares of common stock beneficially owned by them, except to the extent authority is shared by spouses under applicable law. The inclusion of any shares in this table does not constitute an admission of beneficial ownership for the person named below.

	Shares of Common Stock			Shares of Common Stock to be	
	Beneficially Owned Prior to Sh		Number of	Beneficially Owned	
			Shares of Common	After	
Name of Selling Stockholder	Offering		Stock	Offering	
(1)	Number	Percentage	Being Offered	Number	Percentage
Baker Bros. Investments, L.P.	123,112(2)	*	123,112		
Baker Bros. Investments II, L.P.	111,258(3)	*	111,258		
Baker Biotech Fund I, L.P.	1,222,919(4)	6.8%	1,222,919		
Baker Brothers Life Sciences, L.P.	2,444,726(5)	13.2%	2,444,726		
14159, L.P.	75,253(6)	*	75,253		
Tang Capital Partners, L.P.	491,448(7)	2.8%	491,448		
Finsbury Emerging Biotechnology					
Trust plc	248,579(8)	1.4%	248,579		

- * Less than one percent.
- (1) The term selling stockholders includes donees, pledgees, transferees or other successors-in-interest selling shares received after the date of this prospectus supplement from a selling stockholder as a gift, pledge, partnership distribution or other non-sale related transfer.
- (2) Includes 52,762 shares of common stock issuable upon the exercise of

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warrants held by Baker Bros. Investments, L.P.

- (3) Includes 47,682 shares of common stock issuable upon the exercise of warrants held by Baker Bros. Investments II, L.P.
- (4) Includes 524,108 shares of common stock issuable upon the exercise of warrants held by Baker Biotech Fund I, L.P.
- (5) Includes 1,047,740 shares of common stock issuable upon the exercise of warrants held by Baker Brothers Life Sciences, L.P.
- (6) Includes 32,251 shares of common stock issuable upon the exercise of warrants held by 14159, L.P.

- (7) Includes
 266,335 shares
 of common
 stock issuable
 upon the
 exercise of
 warrants held by
 Tang Capital
 Partners, L.P.
- (8) Includes
 106,534 shares
 of common
 stock issuable
 upon the
 exercise of
 warrants held by
 Finsbury
 Emerging
 Biotechnology
 Trust plc.