

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden hours per response:	0.5

1. Name and Address of Reporting Person* <u>Pillar Invest Corp</u> (Last) (First) (Middle) <u>C/O IDERA PHARMACEUTICALS, INC.</u> <u>167 SIDNEY STREET</u> (Street) <u>CAMBRIDGE MA 02139</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>IDERA PHARMACEUTICALS, INC. [IDRA]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) <u>12/13/2017</u>	
	4. If Amendment, Date of 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

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			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 Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	12/13/2017		S		500,000	D	\$1.9195 ⁽¹⁾	0 ⁽²⁾	I	See Footnote ⁽²⁾
Common Stock	12/13/2017		S		600,000	D	\$1.9307 ⁽³⁾	0 ⁽⁴⁾	I	See Footnote ⁽⁴⁾
Common Stock	12/14/2017		S		166,170	D	\$2.005	0 ⁽⁵⁾	I	See Footnote ⁽⁵⁾
Common Stock	12/14/2017		X		700,000	A	\$0.00	0 ⁽⁶⁾	I	See Footnote ⁽⁶⁾
Common Stock	12/14/2017		S		700,000	D	\$2	0 ⁽⁷⁾	I	See Footnote ⁽⁷⁾
Common Stock	12/14/2017		S		300,000	D	\$1.9981 ⁽⁸⁾	0 ⁽⁹⁾	I	See Footnote ⁽⁹⁾
Common Stock	12/15/2017		S		33,830	D	\$1.9074 ⁽¹⁰⁾	0 ⁽¹¹⁾	I	See Footnote ⁽¹¹⁾

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Warrants	\$0.47	12/14/2017		X		700,000		05/01/2013	05/01/2018	Common Stock	700,000	\$0.00	0	I	See Footnote ⁽⁶⁾

1. Name and Address of Reporting Person*
Pillar Invest Corp

 (Last) (First) (Middle)
C/O IDERA PHARMACEUTICALS, INC.
167 SIDNEY STREET

 (Street)
CAMBRIDGE MA 02139

 (City) (State) (Zip)

1. Name and Address of Reporting Person*
Pillar Pharmaceuticals II, L.P.

 (Last) (First) (Middle)

PILLAR INVEST OFFSHORE SAL, STARCO CTR,
BLOC B, 3RD FLOOR, OMAR DAOUK STREET

(Street)
BEIRUT M8 2020-3313

(City) (State) (Zip)

1. Name and Address of Reporting Person*

Pillar Pharmaceuticals III, L.P.

(Last) (First) (Middle)

PILLAR INVEST OFFSHORE SAL STARCO CTR,
BLOC B, 3RD FLOOR OMAR DAOUK STREET

(Street)
BEIRUT M8 2020-3313

(City) (State) (Zip)

Explanation of Responses:

1. The shares sold on this date were sold in multiple transactions. This price is the weighted average sales price per share of all shares sold on this date; the actual sale prices per share range from \$1.8651-\$1.97. The reporting person undertakes to provide the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price.
2. Shares sold by Pillar Pharmaceuticals II, L.P. ("Pillar II"), of which Pillar Invest Corporation ("Pillar GP") is the general partner. Pillar GP disclaims Section 16 beneficial ownership of the securities beneficially owned by Pillar II and this report shall not be deemed an admission that Pillar GP is the Section 16 beneficial owner of any such securities, except to the extent of its pecuniary interest therein, if any, by virtue of its ownership interest in Pillar II. As of the date hereof, Pillar II owns directly 10,259,956 shares of common stock of the Issuer.
3. The shares sold on this date were sold in multiple transactions. This price is the weighted average sales price per share of all shares sold on this date; the actual sale prices per share range from \$1.91-\$1.98. The reporting person undertakes to provide the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price.
4. Shares sold by Pillar Pharmaceuticals III, L.P. ("Pillar III"), of which Pillar GP is the general partner. Pillar GP disclaims Section 16 beneficial ownership of the securities beneficially owned by Pillar III and this report shall not be deemed an admission that Pillar GP is the Section 16 beneficial owner of any such securities, except to the extent of its pecuniary interest therein, if any, by virtue of its ownership interest in Pillar III. As of the date hereof, Pillar III owns directly 3,271,839 shares of common stock of the Issuer.
5. Shares sold by Pillar III, of which Pillar GP is the general partner. Pillar GP disclaims Section 16 beneficial ownership of the securities beneficially owned by Pillar III and this report shall not be deemed an admission that Pillar GP is the Section 16 beneficial owner of any such securities, except to the extent of its pecuniary interest therein, if any, by virtue of its ownership interest in Pillar III. As of the date hereof, Pillar III owns directly 3,105,669 shares of common stock of the Issuer.
6. Warrants beneficially owned and exercised for shares of common stock by Participations Besancon (the "Besancon Warrants"). Participations Besancon is a fund advised by Pillar GP. Pillar GP disclaims Section 16 beneficial ownership of the Besancon Warrants and the common stock underlying such warrants and this report shall not be deemed an admission that Pillar GP is the Section 16 beneficial owner of any such securities, except to the extent of its pecuniary interest therein, if any, resulting from fees payable to Pillar GP in its capacity as investment advisor to Besancon.
7. Shares sold by Participations Besancon. Participations Besancon is a fund advised by Pillar GP. Pillar GP disclaims Section 16 beneficial ownership of the Besancon Warrants and the common stock underlying such warrants and this report shall not be deemed an admission that Pillar GP is the Section 16 beneficial owner of any such securities, except to the extent of its pecuniary interest therein, if any, resulting from fees payable to Pillar GP in its capacity as investment advisor to Besancon. As of the date hereof, Participations Besancon owns directly 8,875,973 shares of common stock of the Issuer.
8. The shares sold on this date were sold in multiple transactions. This price is the weighted average sales price per share of all shares sold on this date; the actual sale prices per share range from \$1.9856-\$2.00. The reporting person undertakes to provide the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price.
9. Shares sold by Pillar II, of which Pillar GP is the general partner. Pillar GP disclaims Section 16 beneficial ownership of the securities beneficially owned by Pillar II and this report shall not be deemed an admission that Pillar GP is the Section 16 beneficial owner of any such securities, except to the extent of its pecuniary interest therein, if any, by virtue of its ownership interest in Pillar II. As of the date hereof, Pillar II owns directly 9,959,956 shares of common stock of the Issuer.
10. The shares sold on this date were sold in multiple transactions. This price is the weighted average sales price per share of all shares sold on this date; the actual sale prices per share range from \$1.90-\$1.9119. The reporting person undertakes to provide the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price.
11. Shares sold by Pillar III, of which Pillar GP is the general partner. Pillar GP disclaims Section 16 beneficial ownership of the securities beneficially owned by Pillar III and this report shall not be deemed an admission that Pillar GP is the Section 16 beneficial owner of any such securities, except to the extent of its pecuniary interest therein, if any, by virtue of its ownership interest in Pillar III. As of the date hereof, Pillar III owns directly 3,071,839 shares of common stock of the Issuer.

Remarks:

Pillar Invest Corporation, /s/
Youssef El Zein, Authorized 12/15/2017
Person

** Signature of Reporting Person Date

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

* 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).

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

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 Number.