

Anthera Pharmaceuticals Inc  
Form SC 13G  
July 27, 2012

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

**SCHEDULE 13G**

Under the Securities Exchange Act of 1934

(Amendment No. \_\_)\*

ANTHERA PHARMACEUTICALS, INC.

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(Name of Issuer)

**Common Stock, par value \$0.001**

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(Title of Class of Securities)

**03674U102**

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(CUSIP Number)

**July 19, 2012**

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(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("**Act**") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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- Names of Reporting  
Persons.  
I.R.S. Identification  
Nos. of above persons  
(entities only).
- 1.

**RA Capital  
Management, LLC**

- Check the Appropriate  
Box if a Member of a  
Group (See  
Instructions)
2. (a) ..  
(b) ..

3. SEC Use Only

- Citizenship or Place of  
Organization
4. **Massachusetts**

- Sole Voting  
Power
5. **4,500,000**

- Number of  
Shares Beneficially  
Owned by  
Each  
Reporting  
Person  
With
- Shared  
Voting  
Power **0**
- Sole  
Dispositive  
Power  
**4,500,000**
- 6.
  - 7.

- Shared  
Dispositive  
Power **0**
- 8.

- Aggregate Amount  
Beneficially Owned by  
Each Reporting Person
- 9.

**4,500,000**

Check if the Aggregate  
Amount in Row (9)  
Excludes ..

10.

Certain Shares (See  
Instructions)

Percent of Class  
Represented by  
11. Amount in Row (9)

**6.1%**

Type of Reporting  
Person (See  
12. Instructions)

**IA**

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Names of Reporting  
Persons.  
I.R.S. Identification  
Nos. of above persons  
1. (entities only).

**Peter Kolchinsky**

Check the Appropriate  
Box if a Member of a  
2. Group (See  
Instructions)  
(a) ..  
(b) ..

3. SEC Use Only

Citizenship or Place of  
4. Organization **United  
States**

Sole Voting  
5. Power  
**4,500,000**

Number of Shares Beneficially Owned by Each Reporting Person With  
6. Shared Voting Power **0**  
7. Sole Dispositive Power  
**4,500,000**

8. Shared Dispositive Power **0**

9.

Aggregate Amount  
Beneficially Owned by  
Each Reporting Person

**4,500,000**

Check if the  
Aggregate Amount in  
Row (9) Excludes  
..

10.

Certain Shares (See  
Instructions)

Percent of Class  
Represented by  
11. Amount in Row (9)

**6.1%**

Type of Reporting  
Person (See  
12. Instructions)

**IN**

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Names of Reporting  
Persons.  
I.R.S. Identification  
Nos. of above persons  
(entities only).

1.

**RA Capital  
Healthcare Fund,  
L.P.**

2. Check the Appropriate  
Box if a Member of a  
Group (See  
Instructions)  
(a) ..  
(b) ..

3. SEC Use Only

4. Citizenship or Place of  
Organization  
**Delaware**

5. Sole Voting  
Power  
**2,677,500**

Number of  
Shares 6. Shared  
Beneficially 6. Voting  
Owned by Power **0**  
Each  
Reporting 7. Sole  
Person 7. Dispositive  
With Power  
**2,677,500**

8. Shared  
Dispositive  
Power **0**

9.

Aggregate Amount  
Beneficially Owned by  
Each Reporting Person

**2,677,500**

Check if the  
Aggregate Amount in  
Row (9) Excludes  
..

10.

Certain Shares (See  
Instructions)

Percent of Class  
Represented by  
11. Amount in Row (9)

**3.6%**

Type of Reporting  
Person (See  
12. Instructions)

**PN**



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**Item 1.**

(a) **Name of Issuer:** Anthera Pharmaceuticals, Inc. (the “Issuer”).

(b) **Address of the Issuer’s Principal Executive Offices:** 25801 Industrial Boulevard, Suite B, Hayward, California 94545.

**Item 2.**

(a) **Name of Person Filing:** This joint statement on Schedule 13G is being filed by Peter Kolchinsky, RA Capital Management, LLC, and RA Capital Healthcare Fund, L.P., who are collectively referred to herein as the “Reporting Persons.” Mr. Kolchinsky (the “Manager”) is the manager of RA Capital Management, LLC (“Capital”), which is the investment adviser and sole general partner of RA Capital Healthcare Fund, L.P. (“Fund”) and serves as the investment adviser to a separate discretionary account. The Reporting Persons have entered into a Joint Filing Agreement, dated as of the date hereof, a copy of which is filed with this Schedule 13G as Exhibit 1 (which is incorporated herein by reference), pursuant to which the Reporting Persons have agreed to file this statement jointly in accordance with the provisions of Rule 13d-1(k) under the Act.

(b) **Address of Principal Business Office:** The principal business office of the Reporting Persons with respect to the shares reported hereunder is 20 Park Plaza, Suite 1200, Boston, MA 02116.

(c) **Citizenship:** Capital is a Massachusetts limited liability company. The Fund is a Delaware limited partnership. The Manager is a United States citizen.

(d) **Title and Class of Securities:** Common stock (“Common Stock”).

(e) **CUSIP Number:** 03674U102.

**Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:**

Not applicable.

**Item 4. Ownership:**

In the aggregate, the Reporting Persons beneficially own 4,500,000 shares of the Common Stock of the Issuer, representing approximately 6.1% of such class of securities. The beneficial ownership of each Reporting Person is as follows: (i) Fund beneficially owns 2,677,500 shares of Common Stock, representing approximately 3.6% of the class and (ii) Capital, as the investment adviser and sole general partner of the Fund and investment adviser to an account owned by a separate investment vehicle which holds shares of the Issuer's Common Stock, and Mr. Kolchinsky as the manager of Capital, each beneficially own 4,500,000 shares of Common Stock of the Issuer, representing approximately 6.1% of the class. The percentage of Common Stock beneficially owned by each Reporting Person is based on a total of 74,081,870 shares of the Common Stock outstanding as of July 19, 2012 as reported on the Issuer's Form 8-K filed on July 20, 2012 along with the Issuer's 10-Q filed on May 04, 2012.

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The Fund has the power to vote and dispose of the shares of Common Stock beneficially owned by such entity (as described above). Capital, as the investment adviser and sole general partner of the Fund and as the investment adviser to an account owned by a separate investment vehicle which holds shares of the Issuer's Common Stock, has the sole authority to vote and dispose of all of the shares of Common Stock reported in this Schedule 13G. The Manager, by virtue of his position as manager of Capital, has the sole authority to vote and dispose of all of the shares of Common Stock reported in this Schedule 13G.

**Item 5. Ownership of Five Percent or Less of a Class:**

Not applicable.

**Item 6. Ownership of More than Five Percent on Behalf of Another Person:**

Not applicable.

**Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person:**

Not applicable.

**Item 8. Identification and Classification of Members of the Group:**

Not applicable.

**Item 9. Notice of Dissolution of Group:**

Not applicable.

**Item 10. Certification:**

By signing below I hereby certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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*Signature*

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

DATE: JULY 27,  
2012

RA CAPITAL  
HEALTHCARE  
FUND, L.P.

By: RA Capital  
Management, LLC  
General  
Partner

By: /s/ Peter  
Kolchinsky  
Peter Kolchinsky  
Manager

RA CAPITAL  
MANAGEMENT,  
LLC

By: /s/ Peter  
Kolchinsky  
Peter Kolchinsky  
Manager

PETER  
KOLCHINSKY

/s/ Peter  
Kolchinsky



Exhibit 1

JOINT FILING AGREEMENT

Pursuant to Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended, the undersigned hereby agrees, as of July 27, 2012, that only one statement containing the information required by Schedule 13G, and each amendment thereto, need be filed with respect to the ownership by each of the undersigned of shares of Common Stock of Anthera Pharmaceuticals, Inc., and such statement to which this Joint Filing Agreement is attached as Exhibit 1 is filed on behalf of each of the undersigned.

RA CAPITAL  
HEALTHCARE  
FUND, L.P.

By: RA Capital  
Management, LLC  
General  
Partner

By: /s/ Peter  
Kolchinsky  
Peter Kolchinsky  
Manager

RA CAPITAL  
MANAGEMENT,  
LLC

By: /s/ Peter  
Kolchinsky  
Peter Kolchinsky  
Manager

PETER  
KOLCHINSKY

/s/ Peter  
Kolchinsky

