

Prothena Corp plc
Form SC 13G
August 27, 2013

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No. __)*

Prothena Corporation plc

(Name of Issuer)

Common Stock, par value \$0.01 per share

(Title of Class of Securities)

G72800108

(CUSIP Number)

August 15, 2013

(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).

CUSIP No. **G72800108 13G**

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

2. Member of a Group (See Instructions)

(a) ☐

(b) ☐

3. SEC Use Only

4. Citizenship or Place of

Organization **Massachusetts**

Number of 5. Sole Voting Power **0 shares**

Shares Beneficially 6. Shared Voting Power **1,648,599 shares**

Owned by Each Reporting 7. Sole Dispositive Power **0 shares**

Person With 8. Shared Dispositive Power **1,648,599 shares**

Aggregate Amount Beneficially Owned by Each Reporting Person

9.

1,648,599 shares

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

10.

Certain Shares (See Instructions)

Percent of Class Represented by Amount in Row (9)

11.

9.3%

Type of Reporting Person (See Instructions)

12.

IA

CUSIP No. **13G**
G72800108

Names of
Reporting
Persons.
I.R.S.
Identification Nos.

1. of above persons
(entities only).

Peter
Kolchinsky

Check the
Appropriate Box

2. if a Member of a
Group (See
Instructions)

(a) ☐

(b) ☐

3. SEC Use Only
Citizenship or

4. Place of
Organization **United**
States

| | | |
|----------------|-----------------------------|-------------------------|
| Number of | 5. Sole Voting Power | 0 shares |
| Shares | 6. Shared Voting Power | 1,648,599 shares |
| Beneficially | 7. Sole Dispositive Power | 0 shares |
| Owned by | 8. Shared Dispositive Power | 1,648,599 shares |
| Each Reporting | | |
| Person With | | |

Aggregate Amount Beneficially Owned by Each Reporting Person

9. **1,648,599 shares**

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

10. Certain Shares (See Instructions)

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

9.3%

Type of Reporting Person (See Instructions)

12.

IN

CUSIP No. **13G**
G72800108

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

1.

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

Check the Appropriate Box if

2. a Member of a Group (See
 Instructions)

(a) ☐

(b) ☐

3. SEC Use Only

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

| | | |
|----------------|-----------------------------|-------------------------|
| Number of | 5. Sole Voting Power | 0 shares |
| Shares | 6. Shared Voting Power | 1,256,714 shares |
| Beneficially | 7. Sole Dispositive Power | 0 shares |
| Owned by | 8. Shared Dispositive Power | 1,256,714 shares |
| Each Reporting | | |
| Person With | | |

Aggregate Amount Beneficially Owned by Each Reporting Person

9. **1,256,714 shares**

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

10.

Certain Shares (See Instructions)

Percent of Class Represented by Amount in Row (9)

11. **7.1%**

Type of Reporting Person (See Instructions)

12. **PN (Limited Partnership)_**

CUSIP No. **G72800108**

Item 1.

(a) **Name of Issuer:** Prothena Corporation plc (the “Issuer”).

(b) **Address of the Issuer’s Principal Executive Offices:** 650 Gateway Boulevard, South San Francisco, California.

Item 2.

(a) **Name of Person Filing:** This joint statement on Schedule 13G is being filed by Peter Kolchinsky, RA Capital Management, LLC (“Capital”), and RA Capital Healthcare Fund, L.P. (the “Fund”). Mr. Kolchinsky, Capital and the Fund are collectively referred to herein as the “Reporting Persons.”

(b) **Address of Principal Business Office:** The principal business office of the Reporting Persons is c/o RA Capital Management, LLC, 20 Park Plaza, Suite 1200, Boston, MA 02116.

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

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

(e) **CUSIP Number:** G72800108

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:

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

Amount Beneficially Owned:**

(a)

RA Capital Management, LLC - 1,648,599 shares

Peter Kolchinsky - 1,648,599 shares

RA Capital Healthcare Fund, L.P. - 1,256,714 shares

(b) Percent of Class:**

RA Capital Management, LLC – 9.3%

Peter Kolchinsky – 9.3%

RA Capital Healthcare Fund, L.P. – 7.1%

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(c) Number of shares as to which such person has:

(i) sole power to vote or to direct the vote **

RA Capital Management, LLC - 0 shares

Peter Kolchinsky - 0 shares

RA Capital Healthcare Fund, L.P. - 0 shares

(ii) shared power to vote or to direct the vote**

RA Capital Management, LLC - 1,648,599 shares

Peter Kolchinsky - 1,648,599 shares

RA Capital Healthcare Fund, L.P. - 1,256,714 shares

(iii) Sole power to dispose or to direct the disposition of**

RA Capital Management, LLC - 0 shares

Peter Kolchinsky - 0 shares

RA Capital Healthcare Fund, L.P. - 0 shares

(iv) shared power to dispose or to direct the disposition of**

RA Capital Management, LLC - 1,648,599 shares

Peter Kolchinsky - 1,648,599 shares

RA Capital Healthcare Fund, L.P. - 1,256,714 shares

** Shares reported herein for the Fund represent shares of Common Stock beneficially owned and held of record by the Fund. Shares reported herein for Capital represent (a) the above-referenced shares of Common Stock reported for the Fund, for which the LLC serves as the sole general partner, and (b) shares of Common Stock held in a separately managed account for which Capital serves as investment adviser. Shares reported herein for Mr. Kolchinsky represent the above-referenced shares of Common Stock reported for Capital, for which Mr. Kolchinsky serves as the manager. Each of the Reporting Persons disclaims beneficial ownership of the shares reported herein except to the extent of its or his pecuniary interest therein.

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.

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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.

CUSIP No. **G72800108**

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: August 27, 2013

RA CAPITAL MANAGEMENT, LLC

By: /s/ Peter Kolchinsky

Peter Kolchinsky

Manager

PETER KOLCHINSKY

/s/ Peter Kolchinsky

RA CAPITAL HEALTHCARE FUND, L.P.

By: RA Capital Management, LLC

General Partner

By: /s/ Peter Kolchinsky

Peter Kolchinsky

Manager

Exhibit 1

JOINT FILING AGREEMENT

This Joint Filing Agreement, dated as of August 27, 2013, is by and among RA Capital Management, LLC, Peter Kolchinsky and RA Capital Healthcare Fund, L.P. (the foregoing are collectively referred to herein as the “Filers”).

Each of the Filers may be required to file with the United States Securities and Exchange Commission a statement on Schedule 13G and/or 13D with respect to Common Shares, par value \$0.01 per share, of Prothena Corporation plc beneficially owned by them from time to time.

Pursuant to and in accordance with Rule 13(d)(1)(k) promulgated under the Securities Exchange Act of 1934, as amended, the Filers hereby agree to file a single statement on Schedule 13G and/or 13D (and any amendments thereto) on behalf of each of such parties, and hereby further agree to file this Joint Filing Agreement as an exhibit to such statement, as required by such rule.

This Joint Filing Agreement may be terminated by any of the Filers upon one week’s prior written notice or such lesser period of notice as the Filers may mutually agree.

Executed and delivered as of the date first above written.

RA CAPITAL MANAGEMENT, LLC

By: /s/ Peter Kolchinsky

Peter Kolchinsky

Manager

PETER KOLCHINSKY

/s/ Peter Kolchinsky

RA CAPITAL HEALTHCARE FUND, L.P.

By: RA Capital Management, LLC

General Partner

By: /s/ Peter Kolchinsky

Peter Kolchinsky

Manager