

PROTEOSTASIS THERAPEUTICS, INC.  
Form SC 13G  
February 13, 2017

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
SCHEDULE 13G  
Under the Securities Exchange Act of 1934

PROTEOSTASIS THERAPEUTICS, INC.  
(Name of Issuer)  
Common Stock, \$0.001 par value  
(Title of Class of Securities)  
74373B109  
(CUSIP Number)  
December 31, 2016  
(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 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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CUSIP No. 74373B109 13G Page 2 of 10 Pages

NAMES OF REPORTING PERSONS

1

Perrigo Company plc

CHECK THE APPROPRIATE BOX  
IF A MEMBER OF A GROUP

2

(a)

(b)

SEC USE ONLY

3

CITIZENSHIP OR PLACE OF  
ORGANIZATION

4

Ireland

SOLE VOTING POWER

5

0

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY  
EACH  
REPORTING  
PERSON WITH

SHARED VOTING POWER

6

2,908,067

SOLE DISPOSITIVE POWER

7

0

SHARED DISPOSITIVE POWER

8

2,908,067

AGGREGATE AMOUNT  
BENEFICIALLY OWNED BY EACH  
REPORTING PERSON

9

2,908,067

CHECK IF THE AGGREGATE  
AMOUNT IN ROW (9) EXCLUDES  
CERTAIN SHARES (SEE  
INSTRUCTIONS)

10

PERCENT OF CLASS  
REPRESENTED BY AMOUNT IN  
ROW (9)

11 11.7% (based on 24,960,243 shares of  
common stock of the Issuer  
outstanding as of November 8, 2016 as  
reported in the Issuer's Form 10-Q for  
the quarter ended September 30, 2016)

12 TYPE OF REPORTING PERSON  
(SEE INSTRUCTIONS)

CO, HC

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CUSIP No. 74373B109 13G Page 3 of 10 Pages

NAMES OF REPORTING PERSONS

1

Perrigo Holdings Ltd.

CHECK THE APPROPRIATE BOX  
IF A MEMBER OF A GROUP

2

(a)

(b)

SEC USE ONLY

3

CITIZENSHIP OR PLACE OF  
ORGANIZATION

4

Ireland

SOLE VOTING POWER

5

0

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY  
EACH  
REPORTING  
PERSON WITH

SHARED VOTING POWER

6

2,908,067

SOLE DISPOSITIVE POWER

7

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SHARED DISPOSITIVE POWER

8

2,908,067

AGGREGATE AMOUNT  
BENEFICIALLY OWNED BY EACH  
REPORTING PERSON

9

2,908,067

CHECK IF THE AGGREGATE  
AMOUNT IN ROW (9) EXCLUDES  
CERTAIN SHARES (SEE  
INSTRUCTIONS)

10

PERCENT OF CLASS  
REPRESENTED BY AMOUNT IN  
ROW (9)

11 11.7% (based on 24,960,243 shares of  
common stock of the Issuer  
outstanding as of November 8, 2016 as  
reported in the Issuer's Form 10-Q for  
the quarter ended September 30, 2016)

TYPE OF REPORTING PERSON  
(SEE INSTRUCTIONS)

12  
CO

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CUSIP No. 74373B109 13G Page 4 of 10 Pages

1	NAMES OF REPORTING PERSONS
	Perrigo Pharma International DAC
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP
	(a)
	(b)
3	SEC USE ONLY
4	CITIZENSHIP OR PLACE OF ORGANIZATION
	Ireland
	SOLE VOTING POWER
5	0
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	SHARED VOTING POWER
6	2,908,067
	SOLE DISPOSITIVE POWER
7	0
	SHARED DISPOSITIVE POWER
8	2,908,067
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	2,908,067
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

PERCENT OF CLASS  
REPRESENTED BY AMOUNT IN  
ROW (9)

11 11.7% (based on 24,960,243 shares of  
common stock of the Issuer  
outstanding as of November 8, 2016 as  
reported in the Issuer's Form 10-Q for  
the quarter ended September 30, 2016)

TYPE OF REPORTING PERSON  
(SEE INSTRUCTIONS)

12

CO

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CUSIP No. 74373B109 13G Page 5 of 10 Pages

NAMES OF REPORTING PERSONS

1

Perrigo Corporation Ltd.

CHECK THE APPROPRIATE BOX  
IF A MEMBER OF A GROUP

2

(a)

(b)

SEC USE ONLY

3

CITIZENSHIP OR PLACE OF  
ORGANIZATION

4

Ireland

SOLE VOTING POWER

5

0

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY  
EACH  
REPORTING  
PERSON WITH

SHARED VOTING POWER

6

2,908,067

SOLE DISPOSITIVE POWER

7

0

SHARED DISPOSITIVE POWER

8

2,908,067

AGGREGATE AMOUNT  
BENEFICIALLY OWNED BY EACH  
REPORTING PERSON

9

2,908,067

CHECK IF THE AGGREGATE  
AMOUNT IN ROW (9) EXCLUDES  
CERTAIN SHARES (SEE  
INSTRUCTIONS)

10

PERCENT OF CLASS  
REPRESENTED BY AMOUNT IN  
ROW (9)

11 11.7% (based on 24,960,243 shares of  
common stock of the Issuer  
outstanding as of November 8, 2016 as  
reported in the Issuer's Form 10-Q for  
the quarter ended September 30, 2016)

TYPE OF REPORTING PERSON  
(SEE INSTRUCTIONS)

12  
CO

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CUSIP No. 74373B109 13G Page 6 of 10 Pages

NAMES OF REPORTING PERSONS

1

Perrigo Science One Ltd.

CHECK THE APPROPRIATE BOX  
IF A MEMBER OF A GROUP

2

(a)

(b)

SEC USE ONLY

3

CITIZENSHIP OR PLACE OF  
ORGANIZATION

4

Ireland

SOLE VOTING POWER

5

0

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY  
EACH  
REPORTING  
PERSON WITH

SHARED VOTING POWER

6

2,908,067

SOLE DISPOSITIVE POWER

7

0

SHARED DISPOSITIVE POWER

8

2,908,067

AGGREGATE AMOUNT  
BENEFICIALLY OWNED BY EACH  
REPORTING PERSON

9

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INSTRUCTIONS)

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ROW (9)

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common stock of the Issuer  
outstanding as of November 8, 2016 as  
reported in the Issuer's Form 10-Q for  
the quarter ended September 30, 2016)

12 TYPE OF REPORTING PERSON  
(SEE INSTRUCTIONS)

CO

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Item 1. (a) Name of Issuer

Proteostasis Therapeutics, Inc.

Item 1. (b) Address of Issuer's Principal Executive Offices

200 Technology Square, 4<sup>th</sup> Floor  
Cambridge, Massachusetts 02139

Item 2. (a) Name of Person Filing

Perrigo Company plc  
Perrigo Holdings Ltd.  
Perrigo Pharma International DAC  
Perrigo Corporation Ltd.  
Perrigo Science One Ltd.

Item 2. (b) Address of Principal Business Office or, if None, Residence

Perrigo Company plc  
Perrigo Holdings Ltd.  
Perrigo Pharma International DAC  
Perrigo Corporation Ltd.  
Perrigo Science One Ltd.

Treasury Building,  
Lower Grand Canal Street  
Dublin 2, Ireland

Item 2. (c) Citizenship

Perrigo Company plc is incorporated under the laws of Ireland.  
Perrigo Holdings Ltd. is incorporated under the laws of Ireland.  
Perrigo Pharma International DAC is incorporated under the laws of Ireland.  
Perrigo Corporation Ltd. is incorporated under the laws of Ireland.  
Perrigo Science One Ltd. is incorporated under the laws of Ireland.

Item 2. (d) Title of Class of Securities

Common Stock, \$0.001 par value

Item 2. (e) CUSIP Number

74373B109

Item 3.

Not Applicable.

Item 4. Ownership

- (a) Amount beneficially owned: See Item 9 of the attached cover pages.
- (b) Percent of class: See Item 11 of the attached cover pages.
- (c) Number of shares as to which the person has:
  - (i) sole power to vote or to direct the vote: See Item 5 of the attached cover pages.
  - (ii) shared power to vote or to direct the vote: See Item 6 of the attached cover pages.
  - (iii) sole power to dispose or to direct the disposition of: See Item 7 of the attached cover pages.
  - (iv) shared power to dispose or to direct the disposition of: See Item 8 of the attached cover pages.

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

See Exhibit 99.1

Item 8. Identification and Classification of Members of the Group

Not Applicable.

Item 9. Notice of Dissolution of Group

Not Applicable.

Item 10. Certification

Not Applicable to filing pursuant to Rule 13d-1(d).

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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.

Dated: February 13, 2017

PERRIGO COMPANY PLC

By: /s/ Todd W. Kingma  
Name: Todd W. Kingma  
Title: Secretary

PERRIGO HOLDINGS  
LTD.

By: /s/ Todd W. Kingma  
Name: Todd W. Kingma  
Title: Secretary

PERRIGO PHARMA  
INTERNATIONAL DAC

By: /s/ Todd W. Kingma  
Name: Todd W. Kingma  
Title: Director

PERRIGO CORPORATION  
LTD.

By: /s/ Todd W. Kingma  
Name: Todd W. Kingma  
Title: Secretary

PERRIGO SCIENCE ONE  
LTD.

By: /s/ Todd W. Kingma  
Name: Todd W. Kingma  
Title: Secretary