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

**SCHEDULE 13G/A**

Under the Securities Exchange Act of 1934  
(Amendment No. 1)

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**NIGHTSTAR THERAPEUTICS PLC**

(Name of Issuer)

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**Ordinary Shares, nominal value £0.01**

(Title of Class of Securities)

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**65413A101**

(CUSIP Number)

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**December 31, 2018**

(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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**CUSIP No. 65413A101**

<b>1</b>	Name of Reporting Person <b>Redmile Group, LLC</b>		
<b>2</b>	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input type="checkbox"/>		
<b>3</b>	SEC Use Only		
<b>4</b>	Citizenship or Place of Organization <b>Delaware</b>		
<b>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</b>	<b>5</b>	Sole Voting Power <b>0</b>	
	<b>6</b>	Shared Voting Power <b>1,795,846 (1)</b>	
	<b>7</b>	Sole Dispositive Power <b>0</b>	
	<b>8</b>	Shared Dispositive Power <b>1,795,846 (1)</b>	
<b>9</b>	Aggregate Amount Beneficially Owned by Each Reporting Person <b>1,795,846 (1)</b>		
<b>10</b>	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)		
<b>11</b>	Percent of Class Represented by Amount in Row (9) <b>5.4%(2)</b>		
<b>12</b>	Type of Reporting Person (See Instructions) <b>IA, OO</b>		

(1) Redmile Group, LLC's beneficial ownership of the Issuer's ordinary shares ("Ordinary Shares") is comprised of 1,795,846 Ordinary Shares owned by certain private investment vehicles and/or separately managed accounts managed by Redmile Group, LLC, which Ordinary Shares may be deemed beneficially owned by Redmile Group, LLC as investment manager of such private investment vehicles and/or separately managed accounts. The reported securities may also be deemed beneficially owned by Jeremy C. Green as the principal of Redmile Group, LLC. Redmile Group, LLC and Mr. Green each disclaim beneficial ownership of these shares, except to the extent of its or his pecuniary interest in such shares, if any.

(2) Percentage based on (a) 32,884,103 Ordinary Shares outstanding after the Issuer's initial public offering on October 2, 2018, as disclosed in the Issuer's final prospectus filed with the Securities and Exchange Commission pursuant to Rule 424(b) under the Securities Act of 1933, as amended, on September 28, 2018 (the "Final Prospectus"), plus (b) 600,000 Ordinary Shares issued in the Issuer's initial public offering pursuant to the full exercise of the underwriters' option to purchase additional shares.

**CUSIP No. 65413A101**

<b>1</b>	Name of Reporting Person <b>Jeremy C. Green</b>	
<b>2</b>	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
<b>3</b>	SEC Use Only	
<b>4</b>	Citizenship or Place of Organization <b>United Kingdom</b>	
<b>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</b>	<b>5</b>	Sole Voting Power <b>0</b>
	<b>6</b>	Shared Voting Power <b>1,795,846</b> <sup>(3)</sup>
	<b>7</b>	Sole Dispositive Power <b>0</b>
	<b>8</b>	Shared Dispositive Power <b>1,795,846</b> <sup>(3)</sup>
<b>9</b>	Aggregate Amount Beneficially Owned by Each Reporting Person <b>1,795,846</b> <sup>(3)</sup>	
<b>10</b>	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)	
<b>11</b>	Percent of Class Represented by Amount in Row (9) <b>5.4%</b> <sup>(4)</sup>	
<b>12</b>	Type of Reporting Person (See Instructions) <b>IN, HC</b>	

<sup>(3)</sup> Jeremy C. Green's beneficial ownership of Ordinary Shares is comprised of 1,795,846 Ordinary Shares owned by certain private investment vehicles and/or separately managed accounts managed by Redmile Group, LLC, which Ordinary Shares may be deemed beneficially owned by Redmile Group, LLC as investment manager of such private investment vehicles and/or separately managed accounts. The reported securities may also be deemed beneficially owned by Jeremy C. Green as the principal of Redmile Group, LLC. Redmile Group, LLC and Mr. Green each disclaim beneficial ownership of these shares, except to the extent of its or his pecuniary interest in such shares, if any.

<sup>(4)</sup> Percentage based on (a) 32,884,103 Ordinary Shares outstanding after the Issuer's initial public offering on October 2, 2018, as disclosed in the Final Prospectus, plus (b) 600,000 Ordinary Shares issued in the Issuer's initial public offering pursuant to the full exercise of the underwriters' option to purchase additional shares.

**Item 1.**

- (a) Name of Issuer  
Nightstar Therapeutics plc
- (b) Address of Issuer's Principal Executive Offices  
10 Midford Place, 2nd Floor  
London W1T 5BJ United Kingdom

**Item 2.**

- (a) Names of Persons Filing  
Redmile Group, LLC  
Jeremy C. Green
- (b) Address of Principal Business office or, if None, Residence  
Redmile Group, LLC  
One Letterman Drive  
Building D, Suite D3-300  
The Presidio of San Francisco  
San Francisco, California 94129  
  
Jeremy C. Green  
c/o Redmile Group, LLC  
One Letterman Drive  
Building D, Suite D3-300  
The Presidio of San Francisco  
San Francisco, California 94129
- (c) Citizenship  
Redmile Group, LLC: Delaware  
Jeremy C. Green: United Kingdom
- (d) Title of Class of Securities  
Ordinary Shares, nominal value £0.01
- (e) CUSIP Number  
65413A101

**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:

- (a)  Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o);
- (b)  Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);
- (c)  Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);
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- (d)  Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8);
- (e)  An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);
- (f)  An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);
- (g)  A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
- (h)  A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i)  A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j)  A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J);
- (k)  Group, in accordance with § 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution: \_\_\_\_\_

**Item 4. Ownership.**

- (a) Amount beneficially owned:
  - Redmile Group, LLC – 1,795,846\*
  - Jeremy C. Green – 1,795,846\*
- (b) Percent of class:
  - Redmile Group, LLC – 5.4%\*\*
  - Jeremy C. Green – 5.4%\*\*
- (c) Number of shares as to which Redmile Group, LLC has:
  - (i) Sole power to vote or to direct the vote:
    - 0
  - (ii) Shared power to vote or to direct the vote:
    - 1,795,846\*
  - (iii) Sole power to dispose or to direct the disposition of:
    - 0
  - (iv) Shared power to dispose or to direct the disposition of:
    - 1,795,846\*

Number of shares as to which Jeremy C. Green has:

- (i) Sole power to vote or to direct the vote:
  - 0



(ii) Shared power to vote or to direct the vote:

1,795,846\*

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

0

(iv) Shared power to dispose or to direct the disposition of:

1,795,846\*

\* Redmile Group, LLC's and Jeremy C. Green's beneficial ownership of the Issuer's Ordinary Shares is comprised of 1,795,846 Ordinary Shares owned by certain private investment vehicles and/or separately managed accounts managed by Redmile Group, LLC, which Ordinary Shares may be deemed beneficially owned by Redmile Group, LLC as investment manager of such private investment vehicles and/or separately managed accounts. The reported securities may also be deemed beneficially owned by Jeremy C. Green as the principal of Redmile Group, LLC. Redmile Group, LLC and Mr. Green each disclaim beneficial ownership of these shares, except to the extent of its or his pecuniary interest in such shares, if any.

\*\* Percentage based on (a) 32,884,103 Ordinary Shares outstanding after the Issuer's initial public offering on October 2, 2018, as disclosed in the Final Prospectus, plus (b) 600,000 Ordinary Shares issued in the Issuer's initial public offering pursuant to the full exercise of the underwriters' option to purchase additional shares.

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

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following

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

N/A.

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

See Exhibit A attached hereto.

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

N/A

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

N/A

**Item 10. Certifications.**

By signing below I 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, other than activities solely in connection with a nomination under § 240.14a-11.

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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: February 14, 2019

**Redmile Group, LLC**

By: /s/ Jeremy C. Green

Name: Jeremy C. Green

Title: Managing Member

/s/ Jeremy C. Green

**Jeremy C. Green**

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**Exhibit A**

Redmile Group, LLC is the relevant entity for which Jeremy C. Green may be considered a control person.

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