

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

SCHEDULE 13G/A

Under the Securities Exchange Act of 1934  
(Amendment No. 2)\*

**Bellerophon Therapeutics, Inc.**

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(Name of Issuer)

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**Common Stock, \$0.01 par value**

(Title of Class of Securities)

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**078771102**

(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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1. Name of Reporting Persons  
Venrock Associates IV, L.P.

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2. Check the Appropriate Box if a Member of a Group (See Instructions)
  - (a)
  - (b)  (1)

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3. SEC Use Only

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4. Citizenship or Place of Organization  
Delaware

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Number of Shares Beneficially Owned by Each Reporting Person With:

  5. Sole Voting Power  
0

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  6. Shared Voting Power  
962,415(2)

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  7. Sole Dispositive Power  
0

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  8. Shared Dispositive Power  
962,415(2)

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9. Aggregate Amount Beneficially Owned by Each Reporting Person  
962,415(2)

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10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)  (3)

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11. Percent of Class Represented by Amount in Row (9)  
1.6%(4)

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12. Type of Reporting Person (See Instructions)  
PN

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- (1) This Schedule 13G/A is being filed by (i) Venrock Associates IV, L.P. (“VA4”), Venrock Partners, L.P. (“VP”), Venrock Entrepreneurs Fund IV, L.P. (“VEF4”), Venrock Management IV, LLC (“VM4”), Venrock Partners Management, LLC (“VPM”) and VEF Management IV, LLC (“VEFM” and together with VA4, VP, VEF4, VM4 and VPM, the “Venrock IV Entities”) and (ii) Venrock Healthcare Capital Partners II, L.P. (“VHCP2”), VHCP Co-Investment Holdings II, LLC (“VHCP Co-2”), VHCP Management II, LLC (“VHCPM2”), Venrock Healthcare Capital Partners III, L.P. (“VHCP3”), VHCP Co-Investment Holdings III, LLC (“VHCP Co-3”), VHCP Management III, LLC (“VHCPM3”), Nimish Shah (“Shah”) and Bong Koh (“Koh” and together with VHCP2, VHCP Co-2, VHCPM2, VHCP3, VHCP Co-3, VHCPM3 and Shah, the “VHCP Entities”). The Venrock IV Entities and the VHCP Entities are collectively referred to as the “Reporting Persons.” The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13G/A.
- (2) Consists of 783,407 shares held by VA4, 159,761 shares held by VP and 19,247 shares held by VEF4.
- (3) The shares included on rows 6, 8 and 9 do not include an aggregate of 6,423,748 shares of common stock held by the VHCP Entities. The Venrock IV Entities disclaim beneficial ownership over the shares held by the VHCP Entities.
- (4) This percentage is calculated based upon 58,679,492 shares of common stock outstanding as of November 6, 2018, as reported in the issuer’s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 7, 2018.

1. Name of Reporting Persons  
Venrock Partners, L.P.

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2. Check the Appropriate Box if a Member of a Group (See Instructions)
  - (a)
  - (b)  (1)

---

3. SEC Use Only

---

4. Citizenship or Place of Organization  
Delaware

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5. Sole Voting Power  
0

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6. Shared Voting Power  
962,415(2)

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7. Sole Dispositive Power  
0

---

8. Shared Dispositive Power  
962,415(2)

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9. Aggregate Amount Beneficially Owned by Each Reporting Person  
962,415(2)

---

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)  (3)

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11. Percent of Class Represented by Amount in Row (9)  
1.6%(4)

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12. Type of Reporting Person (See Instructions)  
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1. Name of Reporting Persons  
Venrock Entrepreneurs Fund IV, L.P.

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2. Check the Appropriate Box if a Member of a Group (See Instructions)
  - (a)
  - (b)  (1)

---

3. SEC Use Only

---

4. Citizenship or Place of Organization  
Delaware

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Number of  
Shares  
Beneficially  
Owned by  
Each  
Reporting  
Person With:

5. Sole Voting Power  
0

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  6. Shared Voting Power  
962,415(2)

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  7. Sole Dispositive Power  
0

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  8. Shared Dispositive Power  
962,415(2)

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  9. Aggregate Amount Beneficially Owned by Each Reporting Person  
962,415(2)

---

  10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)  (3)

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  11. Percent of Class Represented by Amount in Row (9)  
1.6%(4)

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  12. Type of Reporting Person (See Instructions)  
PN

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1. Name of Reporting Persons  
 Venrock Management IV, LLC

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

(a)

(b)  (1)

3. SEC Use Only

4. Citizenship or Place of Organization  
 Delaware

Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 0
	6.	Shared Voting Power 962,415(2)
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 962,415(2)

9. Aggregate Amount Beneficially Owned by Each Reporting Person  
 962,415(2)

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)  (3)

11. Percent of Class Represented by Amount in Row (9)  
 1.6%(4)

12. Type of Reporting Person (See Instructions)  
 OO

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1. Name of Reporting Persons  
Venrock Partners Management, LLC

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2. Check the Appropriate Box if a Member of a Group (See Instructions)
  - (a)
  - (b)  (1)

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3. SEC Use Only

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4. Citizenship or Place of Organization  
Delaware

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5. Sole Voting Power  
0

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6. Shared Voting Power  
962,415(2)

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7. Sole Dispositive Power  
0

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8. Shared Dispositive Power  
962,415(2)

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9. Aggregate Amount Beneficially Owned by Each Reporting Person  
962,415(2)

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10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)  (3)

---

11. Percent of Class Represented by Amount in Row (9)  
1.6%(4)

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12. Type of Reporting Person (See Instructions)  
OO

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- (4) This percentage is calculated based upon 58,679,492 shares of common stock outstanding as of November 6, 2018, as reported in the issuer’s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 7, 2018.

1. Name of Reporting Persons  
 VEF Management IV, LLC

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

(a)

(b)  (1)

3. SEC Use Only

4. Citizenship or Place of Organization  
 Delaware

Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 0
	6.	Shared Voting Power 962,415(2)
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 962,415(2)

9. Aggregate Amount Beneficially Owned by Each Reporting Person  
 962,415(2)

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)  (3)

11. Percent of Class Represented by Amount in Row (9)  
 1.6%(4)

12. Type of Reporting Person (See Instructions)  
 OO

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1. Name of Reporting Persons  
Venrock Healthcare Capital Partners II, L.P.

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2. Check the Appropriate Box if a Member of a Group (See Instructions)
  - (a)
  - (b)  (1)

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3. SEC Use Only

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4. Citizenship or Place of Organization  
Delaware

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	5.	Sole Voting Power 0	
Number of Shares Beneficially Owned by Each Reporting Person With:	6.	Shared Voting Power 6,423,748(2)	
	7.	Sole Dispositive Power 0	
	8.	Shared Dispositive Power 6,423,748(2)	

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9. Aggregate Amount Beneficially Owned by Each Reporting Person  
6,423,748(2)

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10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)  (3)

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11. Percent of Class Represented by Amount in Row (9)  
10.9%(4)

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12. Type of Reporting Person (See Instructions)  
PN

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- (2) Consists of 2,952,442 shares held by VHCP2, 1,196,936 shares held by VHCP Co-2, 2,067,631 shares held by VHCP3 and 206,739 shares held by VHCP Co-3.
- (3) The shares included on rows 6, 8 and 9 do not include an aggregate of 962,415 shares of common stock held by the Venrock IV Entities. The VHCP Entities disclaim beneficial ownership over the shares held by the Venrock IV Entities.
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1. Name of Reporting Persons  
 VHCP Co-Investment Holdings II, LLC
 

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  2. Check the Appropriate Box if a Member of a Group (See Instructions)
    - (a)
    - (b)  (1)
 

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  3. SEC Use Only
 

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  4. Citizenship or Place of Organization  
 Delaware
 

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- |  |    |                          |              |  |
|--|----|--------------------------|--------------|--|
|  | 5. | Sole Voting Power        | 0            |  |
| Number of Shares Beneficially Owned by Each Reporting Person With: | 6. | Shared Voting Power      | 6,423,748(2) |  |
|  | 7. | Sole Dispositive Power   | 0            |  |
|  | 8. | Shared Dispositive Power | 6,423,748(2) |  |
- 
9. Aggregate Amount Beneficially Owned by Each Reporting Person  
 6,423,748(2)
 

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  10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)  (3)
 

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  11. Percent of Class Represented by Amount in Row (9)  
 10.9%(4)
 

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  12. Type of Reporting Person (See Instructions)  
 OO
 

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1. Name of Reporting Persons  
 VHCP Management II, LLC

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

(a)

(b)  (1)

---

3. SEC Use Only

---

4. Citizenship or Place of Organization  
 Delaware

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5. Sole Voting Power  
 0

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Number of Shares Beneficially Owned by Each Reporting Person With:

6. Shared Voting Power  
 6,423,748 (2)

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7. Sole Dispositive Power  
 0

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8. Shared Dispositive Power  
 6,423,748 (2)

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9. Aggregate Amount Beneficially Owned by Each Reporting Person  
 6,423,748 (2)

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10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)  (3)

---

11. Percent of Class Represented by Amount in Row (9)  
 10.9%(4)

---

12. Type of Reporting Person (See Instructions)  
 OO

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1. Name of Reporting Persons  
Venrock Healthcare Capital Partners III, L.P.

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2. Check the Appropriate Box if a Member of a Group (See Instructions)
  - (a)
  - (b)  (1)

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3. SEC Use Only

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4. Citizenship or Place of Organization  
Delaware

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	5.	Sole Voting Power	0
Number of Shares Beneficially Owned by Each Reporting Person With:	6.	Shared Voting Power	6,423,748 (2)
	7.	Sole Dispositive Power	0
	8.	Shared Dispositive Power	6,423,748 (2)

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9. Aggregate Amount Beneficially Owned by Each Reporting Person  
6,423,748 (2)

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10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)  (3)

---

11. Percent of Class Represented by Amount in Row (9)  
10.9%(4)

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12. Type of Reporting Person (See Instructions)  
PN

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- (1) This Schedule 13G/A is being filed by (i) Venrock Associates IV, L.P. (“VA4”), Venrock Partners, L.P. (“VP”), Venrock Entrepreneurs Fund IV, L.P. (“VEF4”), Venrock Management IV, LLC (“VM4”), Venrock Partners Management, LLC (“VPM”) and VEF Management IV, LLC (“VEFM” and together with VA4, VP, VEF4, VM4 and VPM, the “Venrock IV Entities”) and (ii) Venrock Healthcare Capital Partners II, L.P. (“VHCP2”), VHCP Co-Investment Holdings II, LLC (“VHCP Co-2”), VHCP Management II, LLC (“VHCPM2”), Venrock Healthcare Capital Partners III, L.P. (“VHCP3”), VHCP Co-Investment Holdings III, LLC (“VHCP Co-3”), VHCP Management III, LLC (“VHCPM3”), Nimish Shah (“Shah”) and Bong Koh (“Koh”) and together with VHCP2, VHCP Co-2, VHCPM2, VHCP3, VHCP Co-3, VHCPM3 and Shah, the “VHCP Entities”). The Venrock IV Entities and the VHCP Entities are collectively referred to as the “Reporting Persons.” The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13G/A.
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- (3) The shares included on rows 6, 8 and 9 do not include an aggregate of 962,415 shares of common stock held by the Venrock IV Entities. The VHCP Entities disclaim beneficial ownership over the shares held by the Venrock IV Entities.
- (4) This percentage is calculated based upon 58,679,492 shares of common stock outstanding as of November 6, 2018, as reported in the issuer’s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 7, 2018.

1. Name of Reporting Persons  
 VHCP Co-Investment Holdings III, LLC

---

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

(a)

(b)  (1)

---

3. SEC Use Only

---

4. Citizenship or Place of Organization  
 Delaware

---

Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 0
	6.	Shared Voting Power 6,423,748 (2)
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 6,423,748 (2)

---

9. Aggregate Amount Beneficially Owned by Each Reporting Person  
 6,423,748 (2)

---

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)  (3)

---

11. Percent of Class Represented by Amount in Row (9)  
 10.9%(4)

---

12. Type of Reporting Person (See Instructions)  
 OO

---

- (1) This Schedule 13G/A is being filed by (i) Venrock Associates IV, L.P. (“VA4”), Venrock Partners, L.P. (“VP”), Venrock Entrepreneurs Fund IV, L.P. (“VEF4”), Venrock Management IV, LLC (“VM4”), Venrock Partners Management, LLC (“VPM”) and VEF Management IV, LLC (“VEFM” and together with VA4, VP, VEF4, VM4 and VPM, the “Venrock IV Entities”) and (ii) Venrock Healthcare Capital Partners II, L.P. (“VHCP2”), VHCP Co-Investment Holdings II, LLC (“VHCP Co-2”), VHCP Management II, LLC (“VHCPM2”), Venrock Healthcare Capital Partners III, L.P. (“VHCP3”), VHCP Co-Investment Holdings III, LLC (“VHCP Co-3”), VHCP Management III, LLC (“VHCPM3”), Nimish Shah (“Shah”) and Bong Koh (“Koh” and together with VHCP2, VHCP Co-2, VHCPM2, VHCP3, VHCP Co-3, VHCPM3 and Shah, the “VHCP Entities”). The Venrock IV Entities and the VHCP Entities are collectively referred to as the “Reporting Persons.” The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13G/A.
- (2) Consists of 2,952,442 shares held by VHCP2, 1,196,936 shares held by VHCP Co-2, 2,067,631 shares held by VHCP3 and 206,739 shares held by VHCP Co-3.
- (3) The shares included on rows 6, 8 and 9 do not include an aggregate of 962,415 shares of common stock held by the Venrock IV Entities. The VHCP Entities disclaim beneficial ownership over the shares held by the Venrock IV Entities.
- (4) This percentage is calculated based upon 58,679,492 shares of common stock outstanding as of November 6, 2018, as reported in the issuer’s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 7, 2018.

1. Name of Reporting Persons  
 VHCP Management III, LLC

---

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

(a)

(b)  (1)

---

3. SEC Use Only

---

4. Citizenship or Place of Organization  
 Delaware

---

	5.	Sole Voting Power 0
Number of Shares Beneficially Owned by Each Reporting Person With:	6.	Shared Voting Power 6,423,748 (2)
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 6,423,748 (2)

---

9. Aggregate Amount Beneficially Owned by Each Reporting Person  
 6,423,748 (2)

---

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)  (3)

---

11. Percent of Class Represented by Amount in Row (9)  
 10.9%(4)

---

12. Type of Reporting Person (See Instructions)  
 OO

---

(1) This Schedule 13G/A is being filed by (i) Venrock Associates IV, L.P. (“VA4”), Venrock Partners, L.P. (“VP”), Venrock Entrepreneurs Fund IV, L.P. (“VEF4”), Venrock Management IV, LLC (“VM4”), Venrock Partners Management, LLC (“VPM”) and VEF Management IV, LLC (“VEFM” and together with VA4, VP, VEF4, VM4 and VPM, the “Venrock IV Entities”) and (ii) Venrock Healthcare Capital Partners II, L.P. (“VHCP2”), VHCP Co-Investment Holdings II, LLC (“VHCP Co-2”), VHCP Management II, LLC (“VHCPM2”), Venrock Healthcare Capital Partners III, L.P. (“VHCP3”), VHCP Co-Investment Holdings III, LLC (“VHCP Co-3”), VHCP Management III, LLC (“VHCPM3”), Nimish Shah (“Shah”) and Bong Koh (“Koh” and together with VHCP2, VHCP Co-2, VHCPM2, VHCP3, VHCP Co-3, VHCPM3 and Shah, the “VHCP Entities”). The Venrock IV Entities and the VHCP Entities are collectively referred to as the “Reporting Persons.” The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13G/A.

(2) Consists of 2,952,442 shares held by VHCP2, 1,196,936 shares held by VHCP Co-2, 2,067,631 shares held by VHCP3 and 206,739 shares held by VHCP Co-3.

(3) The shares included on rows 6, 8 and 9 do not include an aggregate of 962,415 shares of common stock held by the Venrock IV Entities. The VHCP Entities disclaim beneficial ownership over the shares held by the Venrock IV Entities.

(4) This percentage is calculated based upon 58,679,492 shares of common stock outstanding as of November 6, 2018, as reported in the issuer’s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 7, 2018.

1. Name of Reporting Persons  
Shah, Nimish

---

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

(a)

(b)  (1)

---

3. SEC Use Only

---

4. Citizenship or Place of Organization  
United States

---

5. Sole Voting Power  
0

---

Number of Shares Beneficially Owned by Each Reporting Person With:

6. Shared Voting Power  
6,423,748 (2)

---

7. Sole Dispositive Power  
0

---

8. Shared Dispositive Power  
6,423,748 (2)

---

9. Aggregate Amount Beneficially Owned by Each Reporting Person  
6,423,748 (2)

---

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)  (3)

---

11. Percent of Class Represented by Amount in Row (9)  
10.9%(4)

---

12. Type of Reporting Person (See Instructions)  
IN

---

- (1) This Schedule 13G/A is being filed by (i) Venrock Associates IV, L.P. (“VA4”), Venrock Partners, L.P. (“VP”), Venrock Entrepreneurs Fund IV, L.P. (“VEF4”), Venrock Management IV, LLC (“VM4”), Venrock Partners Management, LLC (“VPM”) and VEF Management IV, LLC (“VEFM” and together with VA4, VP, VEF4, VM4 and VPM, the “Venrock IV Entities”) and (ii) Venrock Healthcare Capital Partners II, L.P. (“VHCP2”), VHCP Co-Investment Holdings II, LLC (“VHCP Co-2”), VHCP Management II, LLC (“VHCPM2”), Venrock Healthcare Capital Partners III, L.P. (“VHCP3”), VHCP Co-Investment Holdings III, LLC (“VHCP Co-3”), VHCP Management III, LLC (“VHCPM3”), Nimish Shah (“Shah”) and Bong Koh (“Koh”) and together with VHCP2, VHCP Co-2, VHCPM2, VHCP3, VHCP Co-3, VHCPM3 and Shah, the “VHCP Entities”). The Venrock IV Entities and the VHCP Entities are collectively referred to as the “Reporting Persons.” The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13G/A.
- (2) Consists of 2,952,442 shares held by VHCP2, 1,196,936 shares held by VHCP Co-2, 2,067,631 shares held by VHCP3 and 206,739 shares held by VHCP Co-3.
- (3) The shares included on rows 6, 8 and 9 do not include an aggregate of 962,415 shares of common stock held by the Venrock IV Entities. The VHCP Entities disclaim beneficial ownership over the shares held by the Venrock IV Entities.
- (4) This percentage is calculated based upon 58,679,492 shares of common stock outstanding as of November 6, 2018, as reported in the issuer’s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 7, 2018.

1.	Name of Reporting Persons Koh, Bong
<hr/>	
2.	Check the Appropriate Box if a Member of a Group (See Instructions)
(a)	<input type="checkbox"/>
(b)	<input checked="" type="checkbox"/> (1)
<hr/>	
3.	SEC Use Only
<hr/>	
4.	Citizenship or Place of Organization United States
<hr/>	
5.	Sole Voting Power 0
<hr/>	
6.	Shared Voting Power 6,423,748 (2)
<hr/>	
7.	Sole Dispositive Power 0
<hr/>	
8.	Shared Dispositive Power 6,423,748 (2)
<hr/>	
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 6,423,748 (2)
<hr/>	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input checked="" type="checkbox"/> (3)
<hr/>	
11.	Percent of Class Represented by Amount in Row (9) 10.9%(4)
<hr/>	
12.	Type of Reporting Person (See Instructions) IN
<hr/>	

- (1) This Schedule 13G/A is being filed by (i) Venrock Associates IV, L.P. ("VA4"), Venrock Partners, L.P. ("VP"), Venrock Entrepreneurs Fund IV, L.P. ("VEF4"), Venrock Management IV, LLC ("VM4"), Venrock Partners Management, LLC ("VPM") and VEF Management IV, LLC ("VEFM" and together with VA4, VP, VEF4, VM4 and VPM, the "Venrock IV Entities") and (ii) Venrock Healthcare Capital Partners II, L.P. ("VHCP2"), VHCP Co-Investment Holdings II, LLC ("VHCP Co-2"), VHCP Management II, LLC ("VHCPM2"), Venrock Healthcare Capital Partners III, L.P. ("VHCP3"), VHCP Co-Investment Holdings III, LLC ("VHCP Co-3"), VHCP Management III, LLC ("VHCPM3"), Nimish Shah ("Shah") and Bong Koh ("Koh" and together with VHCP2, VHCP Co-2, VHCPM2, VHCP3, VHCP Co-3, VHCPM3 and Shah, the "VHCP Entities"). The Venrock IV Entities and the VHCP Entities are collectively referred to as the "Reporting Persons." The Reporting Persons expressly disclaim status as a "group" for purposes of this Schedule 13G/A.
- (2) Consists of 2,952,442 shares held by VHCP2, 1,196,936 shares held by VHCP Co-2, 2,067,631 shares held by VHCP3 and 206,739 shares held by VHCP Co-3.
- (3) The shares included on rows 6, 8 and 9 do not include an aggregate of 962,415 shares of common stock held by the Venrock IV Entities. The VHCP Entities disclaim beneficial ownership over the shares held by the Venrock IV Entities.
- (4) This percentage is calculated based upon 58,679,492 shares of common stock outstanding as of November 6, 2018, as reported in the issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 7, 2018.

**Introductory Note:** This Schedule 13G/A is filed on behalf of the following entities and individuals in respect of shares of common stock of Bellerophon Therapeutics, Inc.:

- Venrock Associates IV, L.P., a limited partnership organized under the laws of the State of Delaware (“VA4”);
- Venrock Partners, L.P., a limited partnership organized under the laws of the State of Delaware (“VP”);
- Venrock Entrepreneurs Fund IV, L.P., a limited partnership organized under the laws of the State of Delaware (“VEF4”);
- Venrock Management IV, LLC, a limited liability company organized under the laws of the State of Delaware (“VM4”), the general partner of VA4;
- Venrock Partners Management, LLC, a limited liability company organized under the laws of the State of Delaware (“VPM”), the general partner of VP;
- VEF Management IV, LLC, a limited liability company organized under the laws of the State of Delaware (“VEFM”), the general partner of VEF4;
- Venrock Healthcare Partners II, L.P., a limited partnership organized under the laws of the State of Delaware (“VHCP2”);
- VHCP Co-Investment Holdings II, LLC, a limited liability company organized under the laws of the State of Delaware (“VHCP Co-2”);
- VHCP Management II, LLC, a limited liability company organized under the laws of the State of Delaware (“VHCPM2”), the general partner of VHCP2 and the manager of VHCP Co-2;
- Venrock Healthcare Partners III, L.P., a limited partnership organized under the laws of the State of Delaware (“VHCP3”);
- VHCP Co-Investment Holdings III, LLC, a limited liability company organized under the laws of the State of Delaware (“VHCP Co-3”);
- VHCP Management III, LLC, a limited liability company organized under the laws of the State of Delaware (“VHCPM3”), the general partner of VHCP3 and the manager of VHCP Co-3;
- Nimish Shah, a managing member of VHCPM2 and VHCPM3; and
- Bong Koh, a managing member of VHCPM2 and VHCPM3.

**Item 1.**

- (a) Name of Issuer  
Bellerophon Therapeutics, Inc.
  - (b) Address of Issuer’s Principal Executive Offices  
184 Liberty Corner Road, Suite 302  
Warren, NJ 07059
- 

**Item 2.**

- (a) Name of Person Filing  
Venrock Associates IV, L.P.  
Venrock Partners, L.P.  
Venrock Entrepreneurs Fund IV, L.P.  
Venrock Management IV, LLC  
Venrock Partners Management, LLC  
VEF Management IV, LLC  
Venrock Healthcare Capital Partners II, L.P.  
VHCP Co-Investment Holdings II, LLC  
VHCP Management II, LLC  
Venrock Healthcare Capital Partners III, L.P.  
VHCP Co-Investment Holdings III, LLC  
VHCP Management III, LLC  
Nimish Shah  
Bong Koh
-



(b)	Address of Principal Business Office or, if none, Residence New York Office: 7 Bryant Park 23 <sup>rd</sup> Floor New York, NY 10018	Palo Alto Office: 3340 Hillview Avenue Palo Alto, CA 94304	Boston Office: 34 Farnsworth Street 3rd Floor Boston, MA 02210
(c)	Citizenship Each of the entities was organized in Delaware. Bong Koh and Nimish Shah are both United States citizens.		
(d)	Title of Class of Securities Common Stock, \$0.01 par value		
(e)	CUSIP Number 078771102		

**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**

(a) Amount beneficially owned as of December 31, 2018:

Venrock Associates IV, L.P.	962,415(1)
Venrock Partners, L.P.	962,415(1)
Venrock Entrepreneurs Fund IV, L.P.	962,415(1)
Venrock Management IV, LLC	962,415(1)
Venrock Partners Management, LLC	962,415(1)
VEF Management IV, LLC	962,415(1)
Venrock Healthcare Capital Partners II, L.P.	6,423,748(2)
VHCP Co-Investment Holdings II, LLC	6,423,748(2)
VHCP Management II, LLC	6,423,748(2)
Venrock Healthcare Capital Partners III, L.P.	6,423,748(2)
VHCP Co-Investment Holdings III, LLC	6,423,748(2)
VHCP Management III, LLC	6,423,748(2)
Nimish Shah	6,423,748(2)
Bong Koh	6,423,748(2)

## (b) Percent of class as of December 31, 2018:

Venrock Associates IV, L.P.	1.6%(3)
Venrock Partners, L.P.	1.6%(3)
Venrock Entrepreneurs Fund IV, L.P.	1.6%(3)
Venrock Management IV, LLC	1.6%(3)
Venrock Partners Management, LLC	1.6%(3)
VEF Management IV, LLC	1.6%(3)
Venrock Healthcare Capital Partners II, L.P.	10.9%(3)
VHCP Co-Investment Holdings II, LLC	10.9%(3)
VHCP Management II, LLC	10.9%(3)
Venrock Healthcare Capital Partners III, L.P.	10.9%(3)
VHCP Co-Investment Holdings III, LLC	10.9%(3)
VHCP Management III, LLC	10.9%(3)
Nimish Shah	10.9%(3)
Bong Koh	10.9%(3)

## (c) Number of shares as to which the person has, as of December 31, 2018:

## (i) Sole power to vote or to direct the vote

Venrock Associates IV, L.P.	0
Venrock Partners, L.P.	0
Venrock Entrepreneurs Fund IV, L.P.	0
Venrock Management IV, LLC	0
Venrock Partners Management, LLC	0
VEF Management IV, LLC	0
Venrock Healthcare Capital Partners II, L.P.	0
VHCP Co-Investment Holdings II, LLC	0
VHCP Management II, LLC	0
Venrock Healthcare Capital Partners III, L.P.	0
VHCP Co-Investment Holdings III, LLC	0
VHCP Management III, LLC	0
Nimish Shah	0
Bong Koh	0

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

Venrock Associates IV, L.P.	962,415(1)
Venrock Partners, L.P.	962,415(1)
Venrock Entrepreneurs Fund IV, L.P.	962,415(1)
Venrock Management IV, LLC	962,415(1)
Venrock Partners Management, LLC	962,415(1)
VEF Management IV, LLC	962,415(1)
Venrock Healthcare Capital Partners II, L.P.	6,423,748(2)
VHCP Co-Investment Holdings II, LLC	6,423,748(2)
VHCP Management II, LLC	6,423,748(2)
Venrock Healthcare Capital Partners III, L.P.	6,423,748(2)
VHCP Co-Investment Holdings III, LLC	6,423,748(2)
VHCP Management III, LLC	6,423,748(2)
Nimish Shah	6,423,748(2)
Bong Koh	6,423,748(2)

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

Venrock Associates IV, L.P.	0
Venrock Partners, L.P.	0
Venrock Entrepreneurs Fund IV, L.P.	0
Venrock Management IV, LLC	0
Venrock Partners Management, LLC	0
VEF Management IV, LLC	0
Venrock Healthcare Capital Partners II, L.P.	0
VHCP Co-Investment Holdings II, LLC	0
VHCP Management II, LLC	0
Venrock Healthcare Capital Partners III, L.P.	0
VHCP Co-Investment Holdings III, LLC	0
VHCP Management III, LLC	0
Nimish Shah	0
Bong Koh	0

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

Venrock Associates IV, L.P.	962,415(1)
Venrock Partners, L.P.	962,415(1)
Venrock Entrepreneurs Fund IV, L.P.	962,415(1)
Venrock Management IV, LLC	962,415(1)
Venrock Partners Management, LLC	962,415(1)
VEF Management IV, LLC	962,415(1)
Venrock Healthcare Capital Partners II, L.P.	6,423,748(2)
VHCP Co-Investment Holdings II, LLC	6,423,748(2)
VHCP Management II, LLC	6,423,748(2)
Venrock Healthcare Capital Partners III, L.P.	6,423,748(2)
VHCP Co-Investment Holdings III, LLC	6,423,748(2)
VHCP Management III, LLC	6,423,748(2)
Nimish Shah	6,423,748(2)
Bong Koh	6,423,748(2)

- (1) Consists of 783,407 shares held by VA4, 159,761 shares held by VP and 19,247 shares held by VEF4.
- (2) Consists of 2,952,442 shares held by VHCP2, 1,196,936 shares held by VHCP Co-2, 2,067,631 shares held by VHCP3 and 206,739 shares held by VHCP Co-3.
- (3) This percentage is calculated based upon 58,679,492 shares of common stock outstanding as of November 6, 2018, as reported in the issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 7, 2018.

**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 five percent of the class of securities, check the following.

**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 a Group**

Not Applicable

**Item 10. Certification**

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.

**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 14, 2019

**Venrock Associates IV, L.P.**

By: Venrock Management IV, LLC  
its General Partner

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**Venrock Partners, L.P.**

By: Venrock Partners Management, LLC  
its General Partner

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**Venrock Entrepreneurs Fund IV, L.P.**

By: VEF Management IV, LLC  
its General Partner

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**Venrock Management IV, LLC**

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**Venrock Partners Management, LLC**

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**VEF Management IV, LLC**

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**Venrock Healthcare Capital Partners II, L.P.**

By: VHCP Management II, LLC,  
its General Partner

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**VHCP Co-Investment Holdings II, LLC**

By: VHCP Management II, LLC,  
its Manager

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**VHCP Management II, LLC**

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**Venrock Healthcare Capital Partners III, L.P.**

By: VHCP Management III, LLC,  
its General Partner

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**VHCP Co-Investment Holdings III, LLC**

By: VHCP Management III, LLC,  
its Manager

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**VHCP Management III, LLC**

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

/s/ David L. Stepp, as attorney-in-fact  
**Nimish Shah**

/s/ David L. Stepp, as attorney-in-fact  
**Bong Koh**

**EXHIBITS**

- A: Joint Filing Agreement
- B: Power of Attorney for Bong Koh (incorporated by reference to Exhibit B to the Schedule 13G filed with the Securities and Exchange Commission on October 10, 2017)
- C: Power of Attorney for Nimish Shah (incorporated by reference to Exhibit C to the Schedule 13G filed with the Securities and Exchange Commission on October 10, 2017)

**EXHIBIT A**

**JOINT FILING AGREEMENT**

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, the undersigned agree to the joint filing on behalf of each of them of a statement on Schedule 13G (including amendments thereto) with respect to the Common Stock of Bellerophon Therapeutics, Inc. and further agree that this agreement be included as an exhibit to such filing. Each party to the agreement expressly authorizes each other party to file on its behalf any and all amendments to such statement. Each party to this agreement agrees that this joint filing agreement may be signed in counterparts.

In evidence whereof, the undersigned have caused this Agreement to be executed on their behalf this 14<sup>th</sup> day of February, 2019.

**Venrock Associates IV, L.P.**

By: Venrock Management IV, LLC  
its General Partner

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**Venrock Partners, L.P.**

By: Venrock Partners Management, LLC  
its General Partner

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**Venrock Entrepreneurs Fund IV, L.P.**

By: VEF Management IV, LLC  
its General Partner

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**Venrock Management IV, LLC**

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**Venrock Partners Management, LLC**

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory



**VEF Management IV, LLC**

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**Venrock Healthcare Capital Partners II, L.P.**

By: VHCP Management II, LLC,  
its General Partner

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**VHCP Co-Investment Holdings II, LLC**

By: VHCP Management II, LLC,  
its Manager

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**VHCP Management II, LLC**

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**Venrock Healthcare Capital Partners III, L.P.**

By: VHCP Management III, LLC,  
its General Partner

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**VHCP Co-Investment Holdings III, LLC**

By: VHCP Management III, LLC,  
its Manager

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

**VHCP Management III, LLC**

By: /s/ David L. Stepp  
Name: David L. Stepp  
Title: Authorized Signatory

/s/ David L. Stepp, as attorney-in-fact

**Nimish Shah**

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/s/ David L. Stepp, as attorney-in-fact

**Bong Koh**

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