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

SCHEDULE 13G/A

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

| | | | (Amendment No. 1)* |
|--|--------------------|-----------------------|---|
| | | | Bellerophon Therapeutics, Inc. |
| | | | (Name of Issuer) |
| | | | Common Stock, \$0.01 par value |
| | | | (Title of Class of Securities) |
| | | | 078771102 |
| | | | (CUSIP Number) |
| | | | August 13, 2018 |
| | | | (Date of Event Which Requires Filing of this Statement) |
| Check the app | propriate | e box to | designate the rule pursuant to which this Schedule is filed: |
| 0 | Rule | 13d-1(b) | |
| X | Rule | 13d-1(c) | |
| 0 | Rule | 13d-1(d) | |
| any subseque The informati | nt amen on requ | idment co | 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 ontaining information which would alter the disclosures provided in a prior cover page. 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 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. 0 | Name | of Repor | Page 2 of 20 rting Persons iates IV, L.P. |
| 2. | Check | the App | ropriate Box if a Member of a Group (See Instructions) |
| | (a) | 0 | |
| | (b) | x(1) | |
| 3. | SEC U | Jse Only | |
| 4. Citizenship or Place of Organization Delaware | | Place of Organization | |
| | | 5. | Sole Voting Power 0 |
| Number of Shares Beneficially | | 6. | Shared Voting Power 962,415(2) |
| Owned by | | | |

Shared Dispositive Power

962,415(2)

8.

| ç |). | Aggregate Amount Beneficially Owned by Each Reporting Person 962,415(2) | | | | | | | |
|---------------------------------|---|--|-----------|---|--|--|--|--|--|
| 1 | 10. | Check is | f the A | Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) x(3) | | | | | |
| 1 | 11. | Percent 1.7%(4) | | ass Represented by Amount in Row (9) | | | | | |
| 1 | 12. | Type of PN | Repo | rting Person (See Instructions) | | | | | |
| | ("VEF togeth Investi VHCP and tog the VF | 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. (F4"), Venrock Management IV, LLC ("VM4"), Venrock Partners Management, LLC ("VPM") and VEF Management IV, LLC ("VEFM" and her with VA4, VP, VEF4, VM4 and VPM, the "Venrock IV Entities") and (ii) Venrock Healthcare Capital Partners II, L.P. ("VHCP2"), VHCP Cottment Holdings II, LLC ("VHCP Co-2"), VHCP Management II, LLC ("VHCPM2"), Venrock Healthcare Capital Partners III, L.P. ("VHCP3"), P. Co-Investment Holdings III, LLC ("VHCP Co-3"), VHCP Management III, LLC ("VHCPM3"), Nimish Shah ("Shah") and Bong Koh ("Koh") ogether with VHCP2, VHCP Co-2, VHCPM2, VHCP3, VHCP Co-3, VHCPM3 and Shah, the "VHCP Entities"). The Venrock IV Entities and "HCP Entities are collectively referred to as the "Reporting Persons." The Reporting Persons expressly disclaim status as a "group" for purposes is Schedule 13G/A. | | | | | | | |
| (2) | Consis | sts of 783 | ,407 s | hares held by VA4, 159,761 shares held by VP and 19,247 shares held by VEF4. | | | | | |
| | | | | on rows 6, 8 and 9 do not include an aggregate of 5,512,355 shares of common stock held by the VHCP Entities. The Venrock IV eficial ownership over the shares held by the VHCP Entities. | | | | | |
| | | | | Iculated based upon 57,798,637 shares of common stock outstanding as of July 31, 2018, as reported in the issuer's Quarterly filed with the Securities and Exchange Commission on August 1, 2018. | | | | | |
| | IP No. 078771102 Page 3 Name of Reporting Persons Venrock Partners, L.P. Check the Appropriate Box if a Member of a Group (See Instructions) | | | orting Persons ners, L.P. | | | | | |
| | | (a) (b) | o x(1) | | | | | | |
| 3 | 3. | SEC Us | | y | | | | | |
| 4. | | Citizens Delawar | _ | r Place of Organization | | | | | |
| | | | 5. | Sole Voting Power 0 | | | | | |
| Numb Shares Benef | s icially | | 6. | Shared Voting Power 962,415(2) | | | | | |
| Owne Each Repor Person | - | : | 7. | Sole Dispositive Power 0 | | | | | |
| | | | 8. | Shared Dispositive Power 962,415(2) | | | | | |
| g |). | Aggrega 962,415 | | nount Beneficially Owned by Each Reporting Person | | | | | |
| | | - | | | | | | | |

(1)

(2)

(3)

(4)

| | 10. | Check i | if the A | Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) x(3) | | | | |
|------------|--|---|------------------------------------|--|--|--|--|--|
| | 11. | Percent of Class Represented by Amount in Row (9) 1.7%(4) | | | | | | |
| | 12. | Type of PN | f Repo | rting Person (See Instructions) | | | | |
| (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 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) | Consis | ts of 783 | 3,407 s | hares held by VA4, 159,761 shares held by VP and 19,247 shares held by VEF4. | | | | |
| (3) | | | | n rows 6, 8 and 9 do not include an aggregate of 5,512,355 shares of common stock held by the VHCP Entities. The Venrock Inficial ownership over the shares held by the VHCP Entities. | | | | |
| (4) | | | | culated based upon 57,798,637 shares of common stock outstanding as of July 31, 2018, as reported in the issuer's Quarterly filed with the Securities and Exchange Commission on August 1, 2018. | | | | |
| | | | | | | | | |
| CU | SIP No. 0 | 7877110 | 02 | Page 4 of 2 | | | | |
| | 1. | | | orting Persons epreneurs Fund IV, L.P. | | | | |
| | 2. | Check (a) (b) | the Approximation $\frac{0}{x(1)}$ | propriate Box if a Member of a Group (See Instructions) | | | | |
| | 3. | SEC Use Only | | | | | | |
| | 4. | Citizen: Delawa | - | Place of Organization | | | | |
| | | | 5. | Sole Voting Power 0 | | | | |
| Sha | nber of res eficially | | 6. | Shared Voting Power 962,415(2) | | | | |
| Eac Rep | ned by h orting son With: | | 7. | Sole Dispositive Power 0 | | | | |
| | | | 8. | Shared Dispositive Power 962,415(2) | | | | |
| | 9. | Aggreg 962,415 | | nount Beneficially Owned by Each Reporting Person | | | | |
| | 10. | Check i | if the A | Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) x(3) | | | | |
| | 11. | Percent | t of Cla | ass Represented by Amount in Row (9) | | | | |

(1)

| 12. | Type o | of Repor | rting Person (See Instructions) | |
|--|--|---|--|--|
| ("VEF togeth Invest: VHCF and to the VE | F4"), Veren with Terminent Ho Terminent Ho Terminent Co-Inverse with the Co-Inverse with the Terminent Ter | nrock M VA4, VI oldings I restment vith VH ities are | is being filed by (i) Venrock Associates IV, L.P. ("VA4"), Venrock Partners, L.P. ("VP"), Venrock Entrepreneurs Fund IV, L.P. Ianagement IV, LLC ("VM4"), Venrock Partners Management, LLC ("VPM") and VEF Management IV, LLC ("VEFM" and P, VEF4, VM4 and VPM, the "Venrock IV Entities") and (ii) Venrock Healthcare Capital Partners II, L.P. ("VHCP2"), VHCP Co II, LLC ("VHCP Co-2"), VHCP Management II, LLC ("VHCPM2"), Venrock Healthcare Capital Partners III, L.P. ("VHCP3"), tholdings III, LLC ("VHCP Co-3"), VHCP Management III, LLC ("VHCPM3"), Nimish Shah ("Shah") and Bong Koh ("Koh" CP2, VHCP Co-2, VHCPM2, VHCP3, VHCP Co-3, VHCPM3 and Shah, the "VHCP Entities"). The Venrock IV Entities and the collectively referred to as the "Reporting Persons." The Reporting Persons expressly disclaim status as a "group" for purposes A. | |
| (2) Consis | sts of 78 | 3,407 sl | hares held by VA4, 159,761 shares held by VP and 19,247 shares held by VEF4. | |
| | | | n rows 6, 8 and 9 do not include an aggregate of 5,512,355 shares of common stock held by the VHCP Entities. The Venrock IV ficial ownership over the shares held by the VHCP Entities. | |
| | | | culated based upon 57,798,637 shares of common stock outstanding as of July 31, 2018, as reported in the issuer's Quarterly filed with the Securities and Exchange Commission on August 1, 2018. | |
| CUSIP No. (| 0787711 | .02 | Page 5 of 26 | |
| | | | | |
| 1. | 1. Name of Reporting Persons Venrock Management IV, LLC | | | |
| 2. | Check | the Ap | propriate Box if a Member of a Group (See Instructions) | |
| | (b) | x(1) | | |
| | | | | |
| 3. | SEC U | Jse Only | y | |
| 4. | Citizei Delaw | | Place of Organization | |
| | | 5. | Sole Voting Power 0 | |
| Number of Shares Beneficially Owned by Each Reporting Person With: | | 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 A | aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) x(3) | |
| 11. | Percen | | ass Represented by Amount in Row (9) | |
| | | | | |

1.7%(4)

Type of Reporting Person (See Instructions)

12.

| (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 5,512,355 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 57,798,637 shares of common stock outstanding as of July 31, 2018, as reported in the issuer's Quarterly Report on Form 10-O filed with the Securities and Exchange Commission on August 1, 2018.

| Report on Form 10-Q filed with the Securities and Exchange Commission on August 1, 2018. | | | | | |
|--|---|-----------|---|--------------|--|
| | | | | | |
| CUSIP No. 0 | 787711 | 02 | | Page 6 of 26 | |
| 1. | Name of Reporting Persons Venrock Partners Management, LLC | | | | |
| 2. | | the Ap | propriate Box if a Member of a Group (See Instructions) | | |
| | (a) (b) | o x(1) | | | |
| 3. | SEC U | se Onl | y | | |
| 4. | Citizenship or Place of Organization Delaware | | | | |
| | | 5. | Sole Voting Power 0 | | |
| Number of Shares Beneficially | | 6. | Shared Voting Power 962,415(2) | | |
| Owned by Each Reporting Person With: | | 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 A | Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) x(3) | | |
| 11. | Percen | | ass Represented by Amount in Row (9) | | |
| 12. | Type o | f Repo | rting Person (See Instructions) | | |

| her with stment H P Co-Inv ogether v HCP En | VA4, V oldings vestmen with VH utities ar | Inangement IV, LLC ("VM4"), Venrock Partners Management, LLC ("VPM") and VEF Management IV, LLC ("VEFM" and P, VEF4, VM4 and VPM, the "Venrock IV Entities") and (ii) Venrock Healthcare Capital Partners II, L.P. ("VHCP2"), VHCP Co-II, LLC ("VHCP Co-2"), VHCP Management II, LLC ("VHCPM2"), Venrock Healthcare Capital Partners III, L.P. ("VHCP3"), t Holdings III, LLC ("VHCP Co-3"), VHCP Management III, LLC ("VHCPM3"), Nimish Shah ("Shah") and Bong Koh ("Koh" CP2, VHCP Co-2, VHCPM2, VHCP3, VHCP Co-3, VHCPM3 and Shah, the "VHCP Entities"). The Venrock IV Entities and explication of the "Reporting Persons." The Reporting Persons expressly disclaim status as a "group" for purposes 'A. | | | | | |
|---|--|--|--|--|--|--|--|
| ists of 78 | 33,407 s | hares held by VA4, 159,761 shares held by VP and 19,247 shares held by VEF4. | | | | | |
| | | on rows 6, 8 and 9 do not include an aggregate of 5,512,355 shares of common stock held by the VHCP Entities. The Venrock IV efficial ownership over the shares held by the VHCP Entities. | | | | | |
| percentage is calculated based upon 57,798,637 shares of common stock outstanding as of July 31, 2018, as reported in the issuer's Quarterly rt on Form 10-Q filed with the Securities and Exchange Commission on August 1, 2018. | | | | | | | |
| . 078771 | 102 | Page 7 of 26 | | | | | |
| | | | | | | | |
| Check | k the Ap | propriate Box if a Member of a Group (See Instructions) | | | | | |
| (a) (b) | o x(1) | | | | | | |
| SEC I | SEC Use Only | | | | | | |
| | Citizenship or Place of Organization Delaware | | | | | | |
| | 5. | Sole Voting Power 0 | | | | | |
| | 6. | Shared Voting Power 962,415(2) | | | | | |
| h: | 7. | Sole Dispositive Power 0 | | | | | |
| | 8. | Shared Dispositive Power 962,415(2) | | | | | |
| 9. Aggregate Amount Beneficially Owned by Each Reporting Person 962,415(2) | | | | | | | |
| Check | k if the A | Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) x(3) | | | | | |
| | | ass Represented by Amount in Row (9) | | | | | |
| 12. Type of Reporting Person (See Instructions) | | | | | | | |
| | her with her with stment Her Co-In ogether virus Schedu ists of 76 shares in its disclar percenta art on For Check (a) (b) SEC 1 (a) (b) SEC 1 Check (a) Check (b) Type Type | her with VA4, VIstment Holdings In Co-Investment ogether with VH4 (HCP Entities are is Schedule 13G/s) shares included or ies disclaim benefit on Form 10-Q (Market In Investment In Inv | | | | | |

("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"),

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.

(1)

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 5,512,355 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 57,798,637 shares of common stock outstanding as of July 31, 2018, as reported in the issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on August 1, 2018.

| CUSIP No. 0 | 78771102 | | | Page 8 of 26 | | |
|---|--|-----------|---------------------------------------|--------------|--|--|
| 1. | Name of Reporting Persons Venrock Healthcare Capital Partners II, L.P. | | | | | |
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) | | | | | |
| | _ | o x(1) | | | | |
| 3. | SEC Use | Only | | | | |
| 4. | Citizensh Delaware | | Place of Organization | | | |
| | 5 | 5. | Sole Voting Power 0 | | | |
| Number of Shares Beneficially | 6 | õ. | Shared Voting Power 5,512,355(2) | | | |
| Owned by Each Reporting Person With: | | 7. | Sole Dispositive Power 0 | | | |
| | 8 | 3. | Shared Dispositive Power 5,512,355(2) | | | |
| 9. | Aggregate Amount Beneficially Owned by Each Reporting Person 5,512,355(2) | | | | | |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) x(3) | | | | | |
| 11. | Percent of Class Represented by Amount in Row (9) 9.5%(4) | | | | | |
| 12. | Type of R | Report | ting Person (See Instructions) | | | |
| | | героп | | | | |

⁽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.

| 4) This p | ercentage i | is calc | ficial ownership over the shares held by the Venrock IV Entities. culated based upon 57,798,637 shares of common stock outstanding as of July 31, 2018, as reported in the issuer's Quarterly filed with the Securities and Exchange Commission on August 1, 2018. | | |
|--|--|---------|---|--|--|
| CUSIP No. (| 078771102 | | Page 9 c | | |
| 1. | Name of Reporting Persons VHCP Co-Investment Holdings II, LLC | | | | |
| 2. | Check the | е Арр | propriate Box if a Member of a Group (See Instructions) | | |
| | (a) c |) | | | |
| | (b) 3 | x(1) | | | |
| 3. | SEC Use | Only | т | | |
| 4. | Citizenship or Place of Organization Delaware | | | | |
| | 5 | 5. | Sole Voting Power 0 | | |
| Number of Shares Beneficially | 6 | 5. | Shared Voting Power 5,512,355(2) | | |
| Owned by Each Reporting Person With | | 7. | Sole Dispositive Power 0 | | |
| | 8 | 3. | Shared Dispositive Power 5,512,355(2) | | |
| 9. | Aggregate Amount Beneficially Owned by Each Reporting Person 5,512,355(2) | | | | |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) x(3) | | | | |
| 11. | Percent o 9.5%(4) | of Clas | ss Represented by Amount in Row (9) | | |
| 12. | Type of Reporting Person (See Instructions) OO | | | | |

Consists of 2,952,442 shares held by VHCP2, 1,196,936 shares held by VHCP Co-2, 1,239,082 shares held by VHCP3 and 123,895 shares held by

VHCP Co-3.

^{(&}quot;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, 1,239,082 shares held by VHCP3 and 123,895 shares held by VHCP Co-3.

| CUSIP No. 0 | 7877110 | 02 | | Page 10 of 26 | | |
|---|--|--|---|---------------|--|--|
| 1. | Name of Reporting Persons VHCP Management II, LLC | | | | | |
| 2. | Check (a) | the Ap | propriate Box if a Member of a Group (See Instructions) | | | |
| | (b) | x(1) | | | | |
| 3. | SEC U | se Onl | y | | | |
| 4. | | Citizenship or Place of Organization Delaware | | | | |
| | | 5. | Sole Voting Power 0 | | | |
| Number of Shares Beneficially | | 6. | Shared Voting Power 5,512,355(2) | | | |
| Owned by Each Reporting Person With: | | 7. | Sole Dispositive Power | | | |
| | | 8. | Shared Dispositive Power 5,512,355(2) | | | |
| 9. | Aggregate Amount Beneficially Owned by Each Reporting Person 5,512,355(2) | | | | | |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) x(3) | | | | | |
| 11. | Percent of Class Represented by Amount in Row (9) 9.5%(4) | | | | | |
| 12. | Type of Reporting Person (See Instructions) OO | | | | | |

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.

⁽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, 1,239,082 shares held by VHCP3 and 123,895 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.

| Aggregate Amount Beneficially Owned by Each Reporting Person 5,512,355(2) | | | |
|--|--|--|--|
| Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) $x(3)$ | | | |
| | | | |
| | | | |
|))) | | | |

This percentage is calculated based upon 57,798,637 shares of common stock outstanding as of July 31, 2018, as reported in the issuer's Quarterly

Report on Form 10-Q filed with the Securities and Exchange Commission on August 1, 2018.

the VHCP Entities are collectively referred to as the "Reporting Persons." The Reporting Persons expressly disclaim status as a "group" for purposes

(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 57,798,637 shares of common stock outstanding as of July 31, 2018, as reported in the issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on August 1, 2018.

of this Schedule 13G/A.

(2) Consists of 2,952,442 shares held by VHCP2, 1,196,936 shares held by VHCP Co-2, 1,239,082 shares held by VHCP3 and 123,895 shares held by VHCP Co-3.

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| 1. | . Name of Reporting Persons VHCP Co-Investment Holdings III, LLC | | | |
|---|--|----------|--|--|
| 2. | Check (a) | the App | ropriate Box if a Member of a Group (See Instructions) | |
| | (a) (b) | x(1) | | |
| | 、 | | | |
| 3. | SEC U | se Only | | |
| 4. | Citizen Delawa | | Place of Organization | |
| | | 5. | Sole Voting Power 0 | |
| Number of Shares Beneficially | | 6. | Shared Voting Power 5,512,355(2) | |
| Owned by Each Reporting Person With: | | 7. | Sole Dispositive Power 0 | |
| | | 8. | Shared Dispositive Power 5,512,355(2) | |
| 9. | Aggregate Amount Beneficially Owned by Each Reporting Person 5,512,355(2) | | | |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) x(3) | | | |
| 11. | Percent of Class Represented by Amount in Row (9) 9.5%(4) | | | |
| 12. | Type of | f Report | ing Person (See Instructions) | |
| | | | | |

- (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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- (4) This percentage is calculated based upon 57,798,637 shares of common stock outstanding as of July 31, 2018, as reported in the issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on August 1, 2018.

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| 1. | Name of Reporting Persons VHCP Management III, LLC | | | | |
|--|--|-----------|---------------------------------------|--|--|
| | Check the Appropriate Box if a Member of a Group (See Instructions) (a) o | | | | |
| | (a) (b) | o x(1) | | | |
| | | | | | |
| 3. | SEC Use Only | | | | |
| 4. | Citizen Delawa | | Place of Organization | | |
| | | 5. | Sole Voting Power 0 | | |
| Number of Shares Beneficially Owned by Each Reporting Person With: | | 6. | Shared Voting Power 5,512,355(2) | | |
| | | 7. | Sole Dispositive Power 0 | | |
| | | 8. | Shared Dispositive Power 5,512,355(2) | | |
| 9. | Aggregate Amount Beneficially Owned by Each Reporting Person 5,512,355(2) | | | | |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) x(3) | | | | |
| | Percent of Class Represented by Amount in Row (9) 9.5%(4) | | | | |
| 12. | Type o OO | f Report | ing Person (See Instructions) | | |
| | | | | | |

- (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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| 2 | Cl. I | .1 4 | | | | |
|--|--|--|---|--|--|--|
| | Check (a) | Check the Appropriate Box if a Member of a Group (See Instructions) (a) 0 | | | | |
| | (b) | x(1) | | | | |
| | | | | | | |
| 3. | SEC Use Only | | | | | |
| | Citizenship or Place of Organization United States | | | | | |
| | | 5. | Sole Voting Power 0 | | | |
| Number of Shares Beneficially | | 6. | Shared Voting Power 5,512,355(2) | | | |
| Owned by Each Reporting Person With: | | 7. | Sole Dispositive Power 0 | | | |
| | | 8. | Shared Dispositive Power 5,512,355(2) | | | |
| | Aggreg 5,512,3 | - | nount Beneficially Owned by Each Reporting Person | | | |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) x(3) | | | | | |
| | Percent of Class Represented by Amount in Row (9) 9.5%(4) | | | | | |
| 12. Type of Reporting Person (See Instructions) IN | | | | | | |

- (1) 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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- This percentage is calculated based upon 57,798,637 shares of common stock outstanding as of July 31, 2018, as reported in the issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on August 1, 2018.

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1. Name of Reporting Persons Koh, Bong

| | (a) | 0 | opropriate Box if a Member of a Group (See Instructions) | |
|--|--|---------|--|--|
| | (b) | x(1) | | |
| 3. | SEC U | Jse Onl | y | |
| 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 5,512,355(2) | |
| | | 7. | Sole Dispositive Power | |
| | | 8. | Shared Dispositive Power 5,512,355(2) | |
| 9. | Aggre 5,512, | | mount Beneficially Owned by Each Reporting Person | |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) x(3) | | | |
| 11. | Percent of Class Represented by Amount in Row (9) 9.5%(4) | | | |
| | 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, 1,239,082 shares held by VHCP3 and 123,895 shares held by VHCP Co-3.
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- (4) This percentage is calculated based upon 57,798,637 shares of common stock outstanding as of July 31, 2018, as reported in the issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on August 1, 2018.

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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.

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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: Palo Alto Office: Boston Office:

7 Bryant Park 3340 Hillview Avenue 34 Farnsworth Street

23rd Floor Palo Alto, CA 94304 3rd Floor

New York, NY 10018 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

$Item 3. \ \ If this statement is filed pursuant to \S\S240.13d-1(b), or 240.13d-2(b) or (c), check whether the person filing is a:$

Not applicable.

Item 4. Ownership

(a) Amount Beneficially Owned as of August 17, 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. | 5,512,355(2) |
| VHCP Co-Investment Holdings II, LLC | 5,512,355(2) |
| VHCP Management II, LLC | 5,512,355(2) |
| Venrock Healthcare Capital Partners III, L.P. | 5,512,355(2) |
| VHCP Co-Investment Holdings III, LLC | 5,512,355(2) |
| VHCP Management III, LLC | 5,512,355(2) |
| Nimish Shah | 5,512,355(2) |
| Bong Koh | 5,512,355(2) |

(b) Percent of Class as of August 17, 2018:

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| Venrock Associates IV, L.P. | 1.7%(3) |
|---|---------|
| Venrock Partners, L.P. | 1.7%(3) |
| Venrock Entrepreneurs Fund IV, L.P. | 1.7%(3) |
| Venrock Management IV, LLC | 1.7%(3) |
| Venrock Partners Management, LLC | 1.7%(3) |
| VEF Management IV, LLC | 1.7%(3) |
| Venrock Healthcare Capital Partners II, L.P. | 9.5%(3) |
| VHCP Co-Investment Holdings II, LLC | 9.5%(3) |
| VHCP Management II, LLC | 9.5%(3) |
| Venrock Healthcare Capital Partners III, L.P. | 9.5%(3) |
| VHCP Co-Investment Holdings III, LLC | 9.5%(3) |
| VHCP Management III, LLC | 9.5%(3) |
| Nimish Shah | 9.5%(3) |
| Bong Koh | 9.5%(3) |
| | |

- (c) Number of shares as to which the person has, as of August 17, 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. | 5,512,355(2) |
| VHCP Co-Investment Holdings II, LLC | 5,512,355(2) |

| VHCP Management II, LLC | 5,512,355(2) |
|---|--------------|
| Venrock Healthcare Capital Partners III, L.P. | 5,512,355(2) |
| VHCP Co-Investment Holdings III, LLC | 5,512,355(2) |
| VHCP Management III, LLC | 5,512,355(2) |
| Nimish Shah | 5,512,355(2) |
| Bong Koh | 5,512,355(2) |

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(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. | 5,512,355(2) |
| VHCP Co-Investment Holdings II, LLC | 5,512,355(2) |
| VHCP Management II, LLC | 5,512,355(2) |
| Venrock Healthcare Capital Partners III, L.P. | 5,512,355(2) |
| VHCP Co-Investment Holdings III, LLC | 5,512,355(2) |
| VHCP Management III, LLC | 5,512,355(2) |
| Nimish Shah | 5,512,355(2) |
| Bong Koh | 5,512,355(2) |

⁽¹⁾ Consists of 783,407 shares held by VA4, 159,761 shares held by VP and 19,247 shares held by VEF4.

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. o

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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⁽²⁾ Consists of 2,952,442 shares held by VHCP2, 1,196,936 shares held by VHCP Co-2, 1,239,082 shares held by VHCP3 and 123,895 shares held by VHCP Co-3.

⁽³⁾ This percentage is calculated based upon 57,798,637 shares of common stock outstanding as of July 31, 2018, as reported in the issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on August 1, 2018.

Item 9. Notice of Dissolution of a Group

Not Applicable

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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: August 17, 2018

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

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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

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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)

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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 17th day of August, 2018.

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

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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 /s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory Venrock Healthcare Capital Partners III, L.P. VHCP Management III, LLC, its General Partner /s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory VHCP Co-Investment Holdings III, LLC VHCP Management III, LLC, its Manager /s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory VHCP Management III, LLC /s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory CUSIP No. 078771102 Page 26 of 26 /s/ David L. Stepp, as attorney-in-fact **Nimish Shah**

By:

By:

By:

By:

By:

By:

Bong Koh

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