

INFINITY PHARMACEUTICALS, INC.  
Form SC 13G/A  
February 09, 2016

**United States**

**SECURITIES AND EXCHANGE COMMISSION**

**WASHINGTON, D.C. 20549**

**SCHEDULE 13G**

**Under the Securities Exchange Act of 1934**

**(Amendment No. 1)**

**INFINITY PHARMACEUTICALS, INC.**

**(Name of Issuer)**

**Common Stock**

**(Title of Class of Securities)**

**45665G303**

**(CUSIP Number)**

**December 31, 2015**

**(Date of Event Which Requires Filing This Statement)**

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

Rule 13d-1(b)

Rule 13d-1(c)

Rule 13d-1(d)

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 ( Act ) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. **45665G303**

1. Names of Reporting Persons

**BB Biotech AG**

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

(a)  (b)

3. SEC Use Only

4. Citizenship or Place of Organization

**Switzerland**

5. Sole Voting Power

Number of

Shares **0**

6. Shared Voting Power

Beneficially

Owned by **2,700,737**

Each 7. Sole Dispositive Power

Reporting

Person **0**

8. Shared Dispositive Power

with:

**2,700,737**

9. Aggregate Amount Beneficially Owned by Each Reporting Person

**2,700,737**

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

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

**5.5%**

12. Type of Reporting Person (See Instructions)

**HC,CO**

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CUSIP No. **45665G303**

1. Names of Reporting Persons

**Biotech Target N.V.**

I.R.S. Identification Nos. of above persons (entities only):

**N/A**

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

(a)  (b)

3. SEC Use Only

4. Citizenship or Place of Organization

**Curacao**

5. Sole Voting Power

Number of

Shares **0**

6. Shared Voting Power

Beneficially

Owned by **2,700,737**

Each 7. Sole Dispositive Power

Reporting

Person **0**

8. Shared Dispositive Power

with:

**2,700,737**

9. Aggregate Amount Beneficially Owned by Each Reporting Person

**2,700,737**

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

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

**5.5%**

12. Type of Reporting Person (See Instructions)

**CO**

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**Item 2**

**2(a) Name of Person Filing: BB Biotech AG ( BB Biotech ) on behalf of its wholly-owned subsidiary, Biotech Target N.V. ( Biotech Target )**

**2(b) Address of Principal Business Office or, if none, Residence:**

**BB Biotech AG: Schwertstrasse 6, CH-8200 Schaffhausen, Switzerland**

**Biotech Target N.V.: Snipweg 26, Curacao**

**2(c) Citizenship: BB Biotech AG: Switzerland**

**Biotech Target N.V.: Curacao**

**2(d) Title of Class of Securities Common Stock, \$0.001 par value**

**2(e) CUSIP Number 45665G303**

**Item 4. Ownership**

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

**(a) Amount beneficially owned: 2,700,737**

**(b) Percent of class: 5.5%**

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

**(i) Sole power to vote or to direct the vote 0**

**(ii) Shared power to vote or to direct the vote 2,700,737**

**(iii) Sole power to dispose or to direct the disposition of 0**

(iv) Shared power to dispose or to direct the disposition of 2,700,737

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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.

**SIGNATURES**

After reasonable inquiry and the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

**BB Biotech AG**

Date: **February 8, 2016**

By: **/s/ Michael Hutter**  
Signatory Authority

Name: **Michael Hutter**

Title: **Signatory Authority**

Date: **February 8, 2016**

By: **/s/ Ivo Betschart**  
Signatory Authority

Name: **Ivo Betschart**

Title: **Signatory Authority**

**Biotech Target N.V.**

Date: **February 8, 2016**

By: **/s/ Michael Hutter**  
Signatory Authority

Name: **Michael Hutter**

Title: **Signatory Authority**

Date: **February 8, 2016**

By: **/s/ Ivo Betschart**  
Signatory Authority

Name: **Ivo Betschart**

Title: **Signatory Authority**

**Exhibit Index**

Exhibit A: Agreement by and between BB Biotech AG and Biotech Target N.V. with respect to the filing of this disclosure statement.\*

\* Previously filed as an exhibit to BB Biotech AG and Biotech Target N.V.'s Schedule 13G filed with the Securities and Exchange Commission on January 13, 2015.

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