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

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**FORM S-8**  
**REGISTRATION STATEMENT**  
*UNDER*  
*THE SECURITIES ACT OF 1933*

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**Achillion Pharmaceuticals, Inc.**  
(Exact Name of Registrant as Specified in Its Charter)

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**Delaware**  
(State or Other Jurisdiction of  
Incorporation or Organization)

**52-2113479**  
(I.R.S. Employer  
Identification No.)

**300 George Street**  
**New Haven, Connecticut**  
(Address of Principal Executive Offices)

**06511**  
(Zip Code)

**Amended and Restated 2015 Stock Incentive Plan**  
(Full Title of the Plan)

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**Joseph Truitt**  
**President and Chief Executive Officer**  
**300 George Street**  
**New Haven, Connecticut**  
(Name and Address of Agent For Service)

**203-624-7000**  
(Telephone Number, Including Area Code, of Agent For Service)

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Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer  Accelerated filer   
Non-accelerated filer  (Do not check if a smaller reporting company) Smaller reporting company   
Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act.

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**CALCULATION OF REGISTRATION FEE**

<b>Title of Securities to be Registered</b>	<b>Amount to be Registered(1)</b>	<b>Proposed Maximum Offering Price Per Share</b>	<b>Proposed Maximum Aggregate Offering Price</b>	<b>Amount of Registration Fee</b>
Common Stock, \$0.001 par value per share	8,200,000 shares	\$2.43(2)	\$19,926,000(2)	\$2,481

- (1) In accordance with Rule 416 under the Securities Act of 1933, as amended, this registration statement shall be deemed to cover any additional securities that may from time to time be offered or issued to prevent dilution resulting from stock splits, stock dividends or similar transactions.
- (2) Estimated solely for the purpose of calculating the registration fee pursuant to Rules 457(c) and 457(h) of the Securities Act of 1933, as amended, and based upon the average of the high and low prices of the Registrant's Common Stock as reported on the Nasdaq Global Select Market on August 6, 2018.

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**STATEMENT OF INCORPORATION BY REFERENCE**

This registration statement on Form S-8 is being filed to register the offer and sale of an additional 8,200,000 shares of the Registrant's common stock, \$0.001 par value per share, issuable under the Registrant's Amended and Restated 2015 Stock Incentive Plan. In accordance with General Instruction E to Form S-8, except for Item 5 "Interests of Named Experts and Counsel" and Item 8 "Exhibits," this registration statement incorporates by reference the registration statement on Form S-8, File No. 333-206276, filed with the Securities and Exchange Commission on August 10, 2015.

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**Part II**

**INFORMATION REQUIRED IN THE REGISTRATION STATEMENT**

**Item 5. Interests of Named Experts and Counsel.**

Wilmer Cutler Pickering Hale and Dorr LLP (“WilmerHale”) has opined as to the legality of the securities being offered by this registration statement.

**Item 8. Exhibits.**

<u>Number</u>	<u>Description</u>
4.1(1)	<a href="#">Amended and Restated Certificate of Incorporation of the Registrant</a>
4.2(2)	<a href="#">Amended and Restated By-laws of the Registrant</a>
5.1	<a href="#">Opinion of Wilmer Cutler Pickering Hale and Dorr LLP, counsel to the Registrant</a>
23.1	<a href="#">Consent of Wilmer Cutler Pickering Hale and Dorr LLP (included in Exhibit 5.1)</a>
23.2	<a href="#">Consent of PricewaterhouseCoopers LLP</a>
24.1	<a href="#">Power of Attorney (included on the signature page of this registration statement)</a>
99.1(3)	<a href="#">Amended and Restated 2015 Stock Incentive Plan</a>

  

(1)	Previously filed as Exhibit 3.1 to the Registrant’s Annual Report on Form 10-K filed with the Securities and Exchange Commission on March 8, 2012 (File No. 001-33095) and incorporated herein by reference.
(2)	Previously filed as Exhibit 3.2 to the Registrant’s Annual Report on Form 10-K filed with the Securities and Exchange Commission on March 29, 2007 (File No. 001-33095) and incorporated herein by reference.
(3)	Previously filed as Exhibit 10.3 to the Registrant’s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on August 8, 2018 (File No. 001-33095) and incorporated herein by reference.

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## SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in New Haven, Connecticut, on this 8th day of August, 2018.

Achillion Pharmaceuticals, Inc.

By: /s/ Joseph Truitt  
Joseph Truitt  
President and Chief Executive Officer and Director  
(Principal executive officer)

## POWER OF ATTORNEY AND SIGNATURES

We, the undersigned officers and directors of Achillion Pharmaceuticals, Inc., hereby severally constitute and appoint Joseph Truitt and Mary Kay Fenton, and each of them singly, our true and lawful attorneys with full power to them, and each of them singly, to sign for us and in our names in the capacities indicated below, the registration statement on Form S-8 filed herewith and any and all subsequent amendments to said registration statement, and generally to do all such things in our names and on our behalf in our capacities as officers and directors to enable Achillion Pharmaceuticals, Inc. to comply with the provisions of the Securities Act of 1933, as amended, and all requirements of the Securities and Exchange Commission, hereby ratifying and confirming our signatures as they may be signed by our said attorneys, or any of them, to said registration statement and any and all amendments thereto.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Joseph Truitt</u> Joseph Truitt	President and Chief Executive Officer and Director (principal executive officer)	August 8, 2018
<u>/s/ Mary Kay Fenton</u> Mary Kay Fenton	Executive Vice President and Chief Financial Officer (principal financial officer and principal accounting officer)	August 8, 2018
<u>/s/ David Scheer</u> David Scheer	Chairman of the Board	August 8, 2018
<u>/s/ Jason Fisherman</u> Jason Fisherman, M.D.	Director	August 8, 2018
<u>/s/ Kurt Graves</u> Kurt Graves	Director	August 8, 2018
<u>/s/ Michael Kishbauch</u> Michael Kishbauch	Director	August 8, 2018

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/s/ Robert Van Nostrand Director  
Robert Van Nostrand

August 8, 2018

/s/ Frank Verziel Director  
Frank Verziel, M.D.

August 8, 2018

/s/ Nicole Vitullo Director  
Nicole Vitullo

August 8, 2018

August 8, 2018

Achillion Pharmaceuticals, Inc.  
300 George Street  
New Haven, Connecticut 06551

Re: Amended and Restated 2015 Stock Incentive Plan

Ladies and Gentlemen:

We have assisted in the preparation of a Registration Statement on Form S-8 (the "Registration Statement") to be filed with the Securities and Exchange Commission (the "Commission") under the Securities Act of 1933, as amended (the "Securities Act"), relating to an additional 8,200,000 shares of common stock, \$0.001 par value per share (the "Shares"), of Achillion Pharmaceuticals, Inc., a Delaware corporation (the "Company"), issuable under the Company's Amended and Restated 2015 Stock Incentive Plan (the "Plan").

We have examined the Certificate of Incorporation and By-Laws of the Company, each as amended and restated to date, and originals, or copies certified to our satisfaction, of all pertinent records of the meetings of the directors and stockholders of the Company, the Registration Statement and such other documents relating to the Company as we have deemed material for the purposes of this opinion.

In our examination of the foregoing documents, we have assumed the genuineness of all signatures, the authenticity of all documents submitted to us as originals, the conformity to original documents of all documents submitted to us as certified, photostatic or other copies, the authenticity of the originals of any such documents and the legal competence of all signatories to such documents.

We assume that the appropriate action will be taken, prior to the offer and sale of the Shares in accordance with the Plan, to register and qualify the Shares for sale under all applicable state securities or "blue sky" laws.

We express no opinion herein as to the laws of any state or jurisdiction other than the state laws of the State of New York, the General Corporation Law of the State of Delaware and the federal laws of the United States of America.

It is understood that this opinion is to be used only in connection with the offer and sale of the Shares while the Registration Statement is in effect.

Please note that we are opining only as to the matters expressly set forth herein, and no opinion should be inferred as to any other matters.

Based on the foregoing, we are of the opinion that the Shares have been duly authorized for issuance and, when the Shares are issued and paid for in accordance with the terms and conditions of the Plan, the Shares will be validly issued, fully paid and nonassessable.

We hereby consent to the filing of this opinion with the Commission in connection with the Registration Statement in accordance with the requirements of Item 601(b)(5) of Regulation S-K under the Securities Act. In giving such consent, we do not hereby admit that we are in the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations of the Commission.

Very truly yours,

WILMER CUTLER PICKERING HALE AND DORR LLP

By: /s/ Cynthia T. Mazareas, Esq.  
Cynthia T. Mazareas, Esq., a Partner

Wilmer Cutler Pickering Hale and Dorr LLP, 60 State Street, Boston, Massachusetts 02109  
Beijing Berlin Boston Brussels Denver Frankfurt London Los Angeles New York Palo Alto Washington

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in this Registration Statement on Form S-8 of our report dated February 22, 2018 relating to the financial statements and the effectiveness of internal control over financial reporting, which appears in Achillion Pharmaceuticals, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2017.

/s/ PricewaterhouseCoopers LLP

PricewaterhouseCoopers LLP  
Hartford, Connecticut  
August 8, 2018