(Date of Event Which Requires Filing of this Statement)	
August 28, 2014**	
(CUSIP Number)	
00448Q201	
(Title of Class of Securities)	
Common Stock, \$0.001 par value per share	
(Name of Issuer)	
ACHILLION PHARMACEUTICALS, INC.	
(Amendment No)*	
Under the Securities Exchange Act of 1934	
SCHEDULE 13G	
UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549	
ACHILLION PHARMACEUTICALS INC Form SC 13G September 02, 2014	

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

\*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).

\*\*The Reporting Persons previously reported ownership of the securities of the issuer named above on Schedule 13D, but because the Reporting Persons currently are deemed to own less than 20% of the issued and outstanding common stock of the issuer, the Reporting Persons have elected to file this statement on Schedule 13G pursuant to Rule 13d-1(h) under the Securities Exchange Act of 1934.

CUSIP No. <b>00448Q201</b>		13G
I.R.S. Ide 1. persons (	entific (entitie	orting Persons. ation Nos. of above es only).  anagement, LLC
		propriate Box if a Group (See Instructions)
3. SEC Use	e Only	
4. Citizensl Organiza		Place of Massachusetts
	5.	Sole Voting Power 0 shares
Number of Shares	6.	Shared Voting Power 17,704,362 shares
Beneficially Owned by Each Reporting Person With	7.	Sole Dispositive Power 0 shares
	8.	Shared Dispositive Power 17,704,362 shares

Aggregate Amount Beneficially Owned by Each Reporting Person

9.

	17,704,362 shares
10.	Check if the Aggregate Amount in Row (9) Excludes [_] Certain Shares (See Instructions)
11.	Percent of Class Represented by Amount in Row (9)
12.	Type of Reporting Person (See Instructions)

	SIP N 4 <b>8Q</b> 2		13G		
1.	I.R.S abov	s. Ic	lentifica	rting Perstion Nos. entities o	of
2.		mb ucti [_]	er of a (ions)	opriate B Group (So	
3.			e Only		
4.		niz	ship or P ation	lace of <b>Unite</b>	d
Nui of	mber	5.	Sole Vo Power shares	oting	0
Sha Ber	neficia ned		Shared Power shares		7,704,362
	orting son	g 7.	Sole Di Power <b>shares</b>	spositive	0
		8.	Shared Power	Dispositi <b>17,70</b> 4	

#### shares

Aggregate Amount Beneficially Owned by Each Reporting Person

9.

### 17,704,362 shares

Check if the Aggregate Amount in Row (9) Excludes 10. [\_]

Certain Shares (See Instructions)

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

18.1%

Type of Reporting Person (See 12.

IN

CUSIP No. <b>00448Q201</b>		13G	
I.R.S. Id persons	lentifica (entities	rting Persons tion Nos. of s only). althcare Fu	above
	r of a Gi	opriate Box i	if a
3. SEC Us	e Only		
4. Citizens Organiz		Place of <b>Delaware</b>	:
	Po	ole Voting ower ares	0
Number of Shares Beneficially	6. Po	nared Voting ower ares	13,790,517
Owned by Each Reporting Person With	Sc 7. Pc	ole Dispositiv ower ares	ve 0
	8. Po	nared Disposi ower 13,79 ares	itive 90,517

	Owned by Each Reporting Person
9.	
	13,790,517 shares
10	Check if the Aggregate Amount in Row (9) Excludes [_] . Certain Shares (See Instructions)
11	Percent of Class Represented by Amount in Row (9)
12	Type of Reporting Person (See Instructions)

PN (Limited Partnership)

Aggregate Amount Beneficially

Item 1.
(a) Name of Issuer: Achillion Pharmaceuticals, Inc. (the "Issuer").
(b) Address of the Issuer's Principal Executive Offices: 300 George Street, New Haven, CT 06511.
Item 2.
(a) <b>Name of Person Filing:</b> This joint statement on Schedule 13G is being filed by Peter Kolchinsky, RA Capital Management, LLC ("Capital"), and RA Capital Healthcare Fund, L.P. (the "Fund"). Mr. Kolchinsky, Capital and the Fund are collectively referred to herein as the "Reporting Persons."
(b) Address of Principal Business Office: The principal business office of the Reporting Persons is c/o RA Capital Management, LLC, 20 Park Plaza, Suite 1200, Boston, MA 02116.
(c) <b>Citizenship:</b> Capital is a Massachusetts limited liability company. The Fund is a Delaware limited partnership. Mr. Kolchinsky is a United States citizen.
(d) Title and Class of Securities: Common stock ("Common Stock").
(e) <b>CUSIP Number:</b> 00448Q201
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:

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

Amount Beneficially Owned:\*\*

(a)

RA Capital Management, LLC – 17,704,362 shares

Peter Kolchinsky – 17,704,362 shares

RA Capital Healthcare Fund, L.P. – 13,790,517 shares

(b) Percent of Class: \*\*

RA Capital Management, LLC – 18.1%

Peter Kolchinsky – 18.1%

RA Capital Healthcare Fund, L.P. – 14.1%

<ul><li>)Number of shares as to which such person has:</li><li>(i) sole power to vote or to direct the vote **</li></ul>
RA Capital Management, LLC - 0 shares
Peter Kolchinsky - 0 shares
RA Capital Healthcare Fund, L.P 0 shares
(ii) shared power to vote or to direct the vote**
RA Capital Management, LLC – 17,704,362 shares
Peter Kolchinsky – 17,704,362 shares
RA Capital Healthcare Fund, L.P. – 13,790,517 shares
(iii) sole power to dispose or to direct the disposition of**
RA Capital Management, LLC - 0 shares
Peter Kolchinsky - 0 shares
RA Capital Healthcare Fund, L.P 0 shares
(iv) shared power to dispose or to direct the disposition of**
RA Capital Management, LLC – 17,704,362 shares
Peter Kolchinsky – 17,704,362 shares
RA Capital Healthcare Fund, L.P. – 13,790,517 shares

\*\* Shares reported herein for the Fund represent shares of Common Stock (i) held of record by the Fund and (ii) issuable upon exercise of call options held of record by the Fund. Shares reported herein for RA Capital represent (a) the above-referenced shares of Common Stock reported for the Fund, for which RA Capital serves as the sole general partner, and (b) shares of Common Stock (I) held in a separately managed account for which RA Capital serves as investment adviser (the "Account") and (II) issuable upon exercise of call options held in the Account. Shares reported herein for Mr. Kolchinsky represent the above-referenced shares of Common Stock reported for RA Capital, for which Mr. Kolchinsky serves as the manager. Each of the Reporting Persons disclaims beneficial ownership of the shares reported herein except to the extent of its or his pecuniary interest therein.

### Item 5. Ownership of Five Percent or Less of a Class:

Not applicable.

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 Group:
Not applicable.
Item 10. Certification:
By signing below I hereby 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.
Exhibit 99.1 Joint Filing Agreement by and among the Reporting Persons

The Joint Filing Agreement, executed by and among the Reporting Persons, dated October 4, 2013, which was filed as an exhibit to the Schedule 13G filed by the Reporting Persons with the Securities and Exchange Commission on October 4, 2013, is hereby incorporated by reference.

SIGNATURE
After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.
Date: September 2, 2014
RA CAPITAL MANAGEMENT, LLC
By: /s/ Peter Kolchinsky
Peter Kolchinsky  Manager
PETER KOLCHINSKY
/s/ Peter Kolchinsky
RA CAPITAL HEALTHCARE FUND, L.P.

By: RA Capital Management, LLC
General Partner
By: /s/ Peter Kolchinsky
Peter Kolchinsky
Manager