ARENA PHARMACEUTICALS INC Form SC 13G/A September 11, 2009 OMB APPROVAL

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No. 4)*

ARENA PHARMACEUTICALS, INC.

(Name of Issuer)

COMMON STOCK

(Title of Class of Securities)

040047102

(CUSIP Number)

September 11, 2009

(Date of Event Which Requires Filing of this Statement)

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

X 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).

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

CUSIP No. 040047102

		1. T	Names of Reporting Persons. R.S. Identification Nos. of above persons (entities only).			
Federated Investors, Inc.						
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: Pennsylvania					
Number of 5.		5.	Sole Voting Power 13,783,089			
Shares Bene-						
ficial	lly by	6.	Shared Voting Power			
Own	ed by Each					
Reporting 7.		7.	Sole Dispositive Power 13,783,089			
Perso	on With:					
8.	. Shared Dispositive Power					
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 13,783,089					
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)					
11.	Percent of Class Represented by Amount in Row (9) 14.88%					
12.	Type of Reporting Person (See Instructions) HC					
1.Names of Reporting Persons.I.R.S. Identification Nos. of above persons (entities only).Voting Shares Irrevocable Trust						
2.	2. Check the Appropriate Box if a Member of a Group (See Instructions)					

(b)						
3. SEC Use Only						
4. Citizenship or Place of Organization: Pennsylvania						
Number of5.Sole Voting Power 13,783,089						
Shares Bene-						
ficially by 6. Shared Voting Power						
Owned by Each						
Reporting7.Sole Dispositive Power 13,783,089						
Person With:						
8. Shared Dispositive Power						
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10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)						
11. Percent of Class Represented by Amount in Row (9) 14.88%						
12. Type of Reporting Person (See Instructions) OO						
1.Names of Reporting Persons.John F. DonahueI.R.S. Identification Nos. of above persons (entities only).						
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: United States						
Number of5.Sole Voting Power						
Shares Bene-						
ficially by 6. Shared Voting Power 13,783,089						
Owned by Each						

Repo	orting	7.	Sole Dispositive Power			
Perso	on With:					
8.	Shared Dispositive Power 13,783,089					
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 13,783,089					
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)					
11.	Percent of Class Represented by Amount in Row (9) 14.88%					
12.	Type of Reporting Person (See Instructions) IN					
Rhoo	lora J. Donahue	1. I.	Names of Reporting Persons. R.S. Identification Nos. of above persons (entities only).			
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: United States					
Num	ber of	5.	Sole Voting Power			
Shares Bene-						
ficial	lly by	6.	Shared Voting Power 13,783,089			
Owned by Each						
Reporting 7.		7.	Sole Dispositive Power			
Perso	on With:					
8.	Shared Dispositive Power 13,783,089					
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11.	Percent of Class Represented by Amount in Row (9) 14.88%					
12.	2. Type of Reporting Person (See Instructions) IN					

1.

Names of Reporting Persons.

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

J. Christopher Donahue 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: United States Number of 5. Sole Voting Power Shares Beneficially by 6. Shared Voting Power 13,783,089 Owned by Each 7. Reporting Sole Dispositive Power Person With: Shared Dispositive Power 13,783,089 8. 9. Aggregate Amount Beneficially Owned by Each Reporting Person 13,783,089 10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) 11. Percent of Class Represented by Amount in Row (9) 14.88% 12. Type of Reporting Person (See Instructions) IN Item 1. Name of Issuer (a) ARENA PHARMACEUTICALS, INC. Address of Issuer's Principal Executive Offices (b) 6166 Nancy Ridge Drive San Diego, CA 92121 Item 2.

- (a) Name of Person Filing
- (b) Address of Principal Business Office or, if none, Residence

Federated Investors Tower, Pittsburgh, PA 15222-3779

- (c) Citizenship
- (d) Title of Class of Securities

Common Stock

(e) CUSIP Number

040047102

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:

- (a) _____ Broker or dealer registered under section 15 of the Act (15 U.S.C. 780).
- (b) ____ Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c) Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d)____Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).
- (e) _____ An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
- (f)_____An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- (g) ____X___ A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
- (h)_____A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j) Group, in accordance with \$240.13d-1(b)(1)(ii)(J).

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. Federated Investors, Inc. (See Footnote 1, next page)
- (a) Amount beneficially owned: 13,783,089
- (b) Percent of class: 14.88%

- (c) Number of shares as to which the person has:
- (i) Sole power to vote or to direct the vote 13,783,089
- (ii) Shared power to vote or to direct the vote -0-
- (iii) Sole power to dispose or to direct the disposition of 13,783,089
- (iv) Shared power to dispose or to direct the disposition of -0-
- B. Voting Shares Irrevocable Trust
- (a) Amount beneficially owned: 13,783,089
- (b) Percent of class: 14.88%
- (c) Number of shares as to which the person has:
- (i) Sole power to vote or to direct the vote 13,783,089
- (ii) Shared power to vote or to direct the vote -0-
- (iii) Sole power to dispose or to direct the disposition of 13,783,089
- (iv) Shared power to dispose or to direct the disposition of -0-
- C. John F. Donahue
- (a) Amount beneficially owned: 13,783,089
- (b) Percent of class: 14.88%
- (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 13,783,089
- (iii) Sole power to dispose or to direct the disposition of -0-
- (iv) Shared power to dispose or to direct the disposition of 13,783,089

D. Rhodora J. Donahue

- (a) Amount beneficially owned: 13,783,089
- (b) Percent of class: 14.88%
- (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 13,783,089
- (iii) Sole power to dispose or to direct the disposition of -0-
- (iv) Shared power to dispose or to direct the disposition of 13,783,089
- E. J. Christopher Donahue
- (a) Amount beneficially owned: 13,783,089
- (b) Percent of class: 14.88%
- (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 13,783,089
- (iii) Sole power to dispose or to direct the disposition of -0-
- (iv) Shared power to dispose or to direct the disposition of 13,783,089

Instruction. For computations regarding securities which represent a right to acquire an underlying security see (240.13d-3(d)(1)).

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 _____.

Instruction: Dissolution of a group requires a response to this item.

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 See Exhibit "1" Attached

Item 8. Identification and Classification of Members of the Group NOT APPLICABLE

Item 9. Notice of Dissolution of Group NOT APPLICABLE

Item 10. Certification

(a) The following certification shall be included if the statement is filed pursuant to §240.13d-1(b):

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and 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.

(b) The following certification shall be included if the statement is filed pursuant to §240.13d-1(c):

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.

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 11, 2009 By: /s/J. Christopher Donahue Name/Title: J. Christopher Donahue, as President of Federated Investors, Inc.

Date: September 11, 2009 By: /s/John F. Donahue, individually and as Trustee of Voting Shares Irrevocable Trust, by J. Christopher Donahue, as attorney-in-fact

Date: September 11, 2009 By: /s/Rhodora J. Donahue, individually and as Trustee of Voting Shares Irrevocable Trust, by J. Christopher Donahue, as attorney-in-fact

Date: September 11, 2009 By: /s/J. Christopher Donahue Name/Title: J. Christopher Donahue, individually and as Trustee of Voting Shares Irrevocable Trust

The original statement shall be signed by each person on whose behalf the statement is filed or his authorized representative. If the statement is signed on behalf of a person by his authorized representative other than an executive officer or general partner of the filing person, evidence of the representative's authority to sign on behalf of such person shall be filed with the statement, provided, however, that a power of attorney for this purpose which is already on file with the Commission may be incorporated by reference. The name and any title of each person who signs the statement shall be typed or printed beneath his signature.

NOTE: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-7 for other parties for whom copies are to be sent.

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001)

EXHIBIT "1"

ITEM 3 CLASSIFICATION OF REPORTING PERSONS

Identity and Classification of Each Reporting Person

IDENTITY	CLASSIFICATION UNDER ITEM 3					
Advanced Series Trust of the Investment Company Act of 1940 (15	d) Investment company registered under section 8 U.S.C. 80a-8).					
Federated Equity Funds of the Investment Company Act of 1940 (15	d) Investment company registered under section 8 U.S.C. 80a-8).					
Federated Insurance Series of the Investment Company Act of 1940 (15	d) Investment company registered under section 8 U.S.C. 80a-8).					
Federated g) A parent holding company or control person in accordance with section 240.13d-1(b)(1)(ii)(G) International Funds, PLC						
Federated Equity Management Company of the Investment Advisers Act of 1940 of Pennsylvania(e) Investment Adviser registered under section 203						
Federated Global Investment 203 of the Investment Advisers Act of 1940 Management Corp.	(e) Investment Adviser registered under section					
Federated Investors, Inc. (g) Parent H	folding Company, in accordance with Section 240.13d-1(b)(ii)(G)					
FII Holdings, Inc. (g) Parent Holding Company, in accordance with Section 240.13d-1(b)(ii)(G)						
Voting Shares Irrevocable Trust (g) Parent Holding Company, in accordance with Section 240.13d-1(b)(ii)(G)						
John F. Donahue (g) Parent Holding Company, in accordance with Section 240.13d-1(b)(ii)(G)						
Rhodora J. Donahue (g) Parent Hol	ding Company, in accordance with Section 240.13d-1(b)(ii)(G)					
J. Christopher Donahue (g) Parent Holding Company, in accordance with Section 240.13d-1(b)(ii)(G)						
Federated Investors, Inc. (the "Parent") is filing this Schedule 13G because it is the parent holding company of Federated Equity Management Company of Pennsylvania and Federated Global Investment Management Corp. (the						

Federated Equity Management Company of Pennsylvania and Federated Global Investment Management Corp. (the "Investment Advisers"), which act as investment advisers to registered investment companies and separate accounts that own shares of common stock in ARENA PHARMACEUTICALS, INC. (the "Reported Securities"). The Investment Advisers are wholly owned subsidiaries of FII Holdings, Inc., which is wholly owned subsidiary of Federated Investors, Inc., the Parent. All of the Parent's outstanding voting stock is held in the Voting Shares Irrevocable Trust (the "Trust") for which John F. Donahue, Rhodora J. Donahue and J. Christopher Donahue act as trustees (collectively, the "Trustees"). The Trustees have joined in filing this Schedule 13G because of the collective voting control that they exercise over the Parent. In accordance with Rule 13d-4 under the Securities Act of 1934, as amended, the Parent, the Trust, and each of the Trustees declare that this statement should not be construed as an admission that they are the beneficial owners of the Reported Securities, and the Parent, the Trust, and each of the Trustees expressly disclaim

beneficial ownership of the Reported Securities

EXHIBIT "2"

AGREEMENT FOR JOINT FILING OF

SCHEDULE 13G

The following parties hereby agree to file jointly the statement on Schedule 13G to which this Agreement is attached and any amendments thereto which may be deemed necessary pursuant to Regulation 13D-G under the Securities Exchange Act of 1934:

1. Federated Investors, Inc. as parent holding company of the investment advisers to registered investment companies that beneficially own the securities.

Voting Shares Irrevocable Trust, as holder of all the voting shares of Federated Investors, Inc.

John F. Donahue, individually and as Trustee

Rhodora J. Donahue, individually and as Trustee

J. Christopher Donahue, individually and as Trustee

It is understood and agreed that each of the parties hereto is responsible for the timely filing of such statement and any amendments thereto, and for the completeness and accuracy of the information concerning such party contained therein, but such party is not responsible for the completeness or accuracy of information concerning the other parties unless such party knows or has reason to believe that such information is incomplete or inaccurate.

It is understood and agreed that the joint filing of Schedule 13G shall not be construed as an admission that the reporting persons named herein constitute a group for purposes of Regulation 13D-G of the Securities Exchange Act of 1934, nor is a joint venture for purposes of the Investment Company Act of 1940.

Date: September 11, 2009

By: /s/J. Christopher Donahue Name/Title: J. Christopher Donahue, as President of Federated Investors, Inc.

By: /s/ John F. Donahue Name/Title: John F. Donahue, individually and as Trustee of Voting Shares Irrevocable Trust, by J. Christopher Donahue, as attorney-in-fact.

By: /s/ Rhodora J. Donahue Name/Title: Rhodora J. Donahue, individually and as Trustee as Voting Shares Irrevocable Trust, by J. Christopher Donahue, as attorney-in-fact.

By:/s/J. Christopher DonahueName/Title:J. Christopher Donahue, individually and as Trustee of Voting Shares Irrevocable Trust

1. The number of shares indicated represent shares beneficially owned by registered investment companies and separate accounts advised by subsidiaries of Federated Investors, Inc. that have been delegated the power to direct

investments and power to vote the securities by the registered investment companies' board of trustees or directors and by the separate accounts' principals. All of the voting securities of Federated Investors, Inc. are held in the Voting Shares Irrevocable Trust ("Trust"), the trustees of which are John F. Donahue, Rhodora J. Donahue, and J. Christopher Donahue ("Trustees'). In accordance with Rule 13d-4 under the 1934 Act, the Trust, Trustees, and parent holding company declare that the filing of this statement should not be construed as an admission that any of the investment advisers, parent holding company, Trust, and Trustees are beneficial owners (for the purposes of Sections 13(d) and/or 13(g) of the Act) of any securities covered by this statement, and such advisers, parent holding company, Trust, and Trustees expressly disclaim that they are the beneficial owners such securities.

EXHIBIT 3

POWER OF ATTORNEY

Each person who signature appears below hereby constitutes and appoints J. Christopher Donahue their true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution for them and in their names, place and stead, in any and all capacities, to sign any and all Schedule 13Ds and/or Schedule 13Gs, and any amendments thereto, to be filed with the Securities and Exchange commission pursuant to Regulation 13D-G of the Securities Exchange Act of 1934, as amended, by means of the Securities and Exchange Commission's electronic disclosure system known as EDGAR; and to file the same, with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact and agent, full power and authority to sign and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as each of them might or could do in person, hereby ratifying and confirming all that said attorney-in-fact and agent, or their or his substitute or substitutes, may lawfully do or cause to be done by virtue thereof.

SIGNATURES &