ARENA PHARMACEUTICALS INC Form SC 13G February 15, 2002

OMB APPROVAL

OMB Number:3235-0145 Expires: August 31, 1999 Estimated average burden hours per response 14.90

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Ammendment No.)

Arena Pharmaceuticals (Name of Issuer)

Common Shares (Title of Class of Securities)

040047102 (CUSIP Number)

December 31, 2001 (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-2(b)

* 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 disclosures provided in a prior cover page.

The information required on 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).

Potential persons who are to 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.

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NAME OF REPORTING PERSONS IRS IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

RS Investment Management Co. LLC

2	<pre>CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) / / (b) / /</pre>								
3	SEC USE ONLY								
4	CITIZENSHIP OR PLACE OF ORGANIZATION								
	Delaware								
	NUMBER OF 5 SHARES BENEFICIALLY	SOLE VOTI	NG POWER 0-						
	OWNED BY EACH REPORTING	-	HARED VOTING POWER 2,388,400-						
	PERSON WITH	7 S	OLE DISPOSITIVE POWER 0-						
		-	HARED DISPOSITIVE POWER 2,388,400-						
	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON -2,388,400-								
10	CHECK IF THE AGGREGATE uctions)		ROW (9) EXCLUDES CERTAIN SHARES (See	:					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 8.8%								
12	TYPE OF REPORTING PERSON (See Instructions) OO, HC								
CUSIP	No. 040047102		13G	Page 3 of 1					
1	NAME OF REPORTING PERSONS IRS IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)								
	RS Investment Management, L.P.								
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								
	California								
	NUMBER OF 5 SHARES BENEFICIALLY	SOLE VOTI							
	OWNED BY		HARED VOTING POWER						

EACH		-2,388,400-							
REPORTING PERSON	7								
WITH	8	SHARED DISPOSITIVE POWER							
CHECK IF THE AGGREGA			(See						
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 8.8%									
TYPE OF REPORTING PERPORTING PERPORTS	RSON (See	Instructions)							
No. 040047102		13G	Page 4 of 1						
NAME OF REPORTING PERSONS IRS IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)									
RS Diversified Growth	n Fund								
CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) / / (b) / /									
CITIZENSHIP OR PLACE OF ORGANIZATION									
Massachusetts									
SHARES									
BENEFICIALLY	6	SHARED VOTING POWER							
OWNED BY EACH		-1,933,400-							
EACH REPORTING PERSON	7	-1,933,400- SOLE DISPOSITIVE POWER -0- SHARED DISPOSITIVE POWER -1,933,400-							
EACH REPORTING PERSON WITH AGGREGATE AMOUNT BENIT -1,933,400-	7 8 EFICIALLY	-1,933,400- SOLE DISPOSITIVE POWER -0- SHARED DISPOSITIVE POWER -1,933,400-							
	AGGREGATE AMOUNT BENE -2,388,400- CHECK IF THE AGGREGAT ctions) PERCENT OF CLASS REPF 8.8% TYPE OF REPORTING PEF PN, IA NO. 040047102 NAME OF REPORTING PEF IRS IDENTIFICATION NO RS Diversified Growth CHECK THE APPROPRIATE (a) / / (b) / / SEC USE ONLY CITIZENSHIP OR PLACE Massachusetts NUMBER OF 5 SHARES	AGGREGATE AMOUNT BENEFICIALLY -2,388,400- CHECK IF THE AGGREGATE AMOUNT ctions) PERCENT OF CLASS REPRESENTED IS 8.8% TYPE OF REPORTING PERSON (See PN, IA No. 040047102 NAME OF REPORTING PERSONS IRS IDENTIFICATION NOS. OF ABOUT A SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIMASSACHUSETTS NUMBER OF 5 SOLE VINE SHARES	WITH -0- 8 SHARED DISPOSITIVE POWER -2,388,400- AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON -2,388,400- CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ctions) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 8.8% TYPE OF REPORTING PERSON (See Instructions) PN, IA No. 040047102 13G NAME OF REPORTING PERSONS IRS IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) RS Diversified Growth Fund CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instruction (a) / / (b) / / SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION Massachusetts NUMBER OF 5 SOLE VOTING POWER SHARES -0-						

	7.1%							
12	TYPE OF	REPORTI	ING PERSON (Se	e Instructi	ons)			
CUSIE	P No. 04004	17102			13G		Page 5	5 of 10
ITEM	1.							
"Issı	(a) The nate of the contract o	name of t	the issuer is	Arena Pharm	aceuticals (the			
6166			executive of San Diego, C		Issuer is loca	ted at:		
ITEM	2.							
state			for informat, the "Filers		persons filing	this		
(the	(d) This "Stock").	statemer	nt relates to	shares of co	ommon stock of	the Issuer		
	(e) The C	CUSIP num	mber of the St	ock is 0400	47102.			
CUSIE	P No. 04004	17102			13G		Page 6	5 of 10
			ment is filed meck whether t	-	rule 240.13d-1 iling is a:	(b) or		
U.S.0	(a) C. 78o).		Broker or de	aler regist	ered under sect	ion 15 of	the Ac	ct (15
78c).	(b)		Bank as defi	ned in sect	ion 3(a)(6) of	the Act (1	5 U.S.	.C.
(15 t	(c) J.S.C. 78c)	.—	Insurance co	mpany as de	fined in sectio	n 3(a)(19)	of th	ne Act
Inves	(d) stment Comp	any Act	Investment c of 1940 (15 U		stered under se).	ction 8 of	the	
1(b)	(e) (1)(ii)(E).		An investmen	t adviser i	n accordance wi	th 240.13d	-	
with	(f) 240.13d-1(benefit pla	n or endowment	fund in ac	cordar	nce
with	(g) 240.13d-1(-	ding compan	y or control pe	rson in ac	cordar	nce
Feder	(h) cal Deposit		A savings as nce Act (12 U.		s defined in se	ction 3(b)	of th	ne
	(i) stment comp (15 U.S.C.		er section 3(c		xcluded from the Investment Co.			an

(j) $_X$ Group, in accordance with section 240.13d-1(b)(1)(ii)(J)

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ITEM 4. OWNERSHIP

See Items 5-9 and 11 on the cover page for each Filer.

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 /___/.

ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON

The Filer is a registered investment adviser whose clients have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the Stock. No individual client's holdings of the Stock, except for the RS Diversified Growth Fund, are more than five percent of the outstanding Stock.

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ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY

Not applicable.

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP

See Annex I

ITEM 9. NOTICE OF DISSOLUTION OF GROUP

Not applicable.

ITEM 10. CERTIFICATION

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.

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: February 8, 2002

RS INVESTMENT MANAGEMENT CO. LLC

By: /s/ G. Randall Hecht G. Randall Hecht

G. Randall necht

Chief Executive Officer

RS INVESTMENT MANAGEMENT, LP.

By: /s/ G. Randall Hecht

G. Randall Hecht

Chief Executive Officer

RS DIVERSIFIED GROWTH FUND

By: RS Investment Management, L.P.

Investment Adviser

By: /s/ G. Randall Hecht
G. Randall Hecht

Chief Executive Officer

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EXHIBIT A

JOINT FILING AGREEMENT

The undersigned hereby agree that they are filing this statement jointly pursuant to Rule 13d-1(f) (1). Each of them is responsible for the timely filing of the Schedule 13G and any amendments thereto, and for the completeness and accuracy of the information concerning such person contained therein; but none of them is responsible for the completeness or accuracy of the information concerning the other persons making the filing, unless such person knows or has reason to believe that such information is accurate.

Dated: February 8, 2002

RS INVESTMENT MANAGEMENT CO. LLC

By: /s/ G. Randall Hecht

G. Randall Hecht

Chief Executive Officer

RS INVESTMENT MANAGEMENT, LP.

By: /s/ G. Randall Hecht

G. Randall Hecht

Chief Executive Officer

RS DIVERSIFIED GROWTH FUND

By: RS Investment Management, L.P.

Investment Adviser

By: /s/ G. Randall Hecht

G. Randall Hecht

Chief Executive Officer

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Annex I

The filers are:

- I. (a) RS Investment Management Co. LLC, is a Delaware Limited Liability Company.
- (b) holding company
- II. (a) RS Investment Management, L.P. is a California Limited

Partnership

- (b) registered investment adviser
- (a) RS Diversified Growth Fund is a series of a Mass. Business Trust.(b) investment company III.