WASHINGTON, DC 20549
SCHEDULE 13G (Rule 13d-102)
INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b)(c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)
(Amendment No. 1) *
AP Pharma Inc.
(Name of Issuer)
Common stock, par value \$0.01 per share
(Title of Class of Securities)
00202J104
(CUSIP Number)
December 31, 2007
(Date of Event Which Requires Filing of this Statement)
Check the appropriate boy to decignate the rule pursuant to which this Schedule

SECURITIES AND EXCHANGE COMMISSION

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

- |\_| Rule 13d-1(b)
- |X| Rule 13d-1(c)
- |\_| Rule 13d-1(d)

(Page 1 of 11 Pages)

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\* 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 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. 0020		Page 2 of 11
 1.		REPORTING PERSONS DENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)	
	Deerfiel	d Capital, L.P.	
2.	СНЕСК ТН	IE APPROPRIATE BOX IF A MEMBER OF A GROUP*	(a)  _  (b)  X
	SEC USE	ONLY	
4.	CITIZENS Delaware		
		5. SOLE VOTING POWER	
		0	
SH	BER OF ARES FICIALLY		

OWNED BY EACH REPORTING		7. SOLE DISPOSITIVE POWER
	RSON	0
	8. SHARED DISPOSITIVE POWER	
		841,449
9.	AGGREGAT	E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	841,449	
10.	CHECK BC	IN IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* $ _ $
11.	PERCENT	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	2.73%	
12.	TYPE OF	REPORTING PERSON*
	PN	

CUSIP	No.	00202J104

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)						
	Deerfiel	Ld Special Situations Fund, L.P.					
2.	CHECK THI		(a)  _  (b)  X				
3.	SEC USE (	ONLY					
4.	CITIZENSI	SHIP OR PLACE OF ORGANIZATION					
	Delaware						
		5. SOLE VOTING POWER					
		Θ					
NUM	BER OF	6. SHARED VOTING POWER					
	ARES FICIALLY	841,449					
	ED BY ACH	7. SOLE DISPOSITIVE POWER					
REPO	ORTING	0					
WITH							
		8. SHARED DISPOSITIVE POWER					
	841,449						
9.	AGGREGATI	RE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	841,449						
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* $ _ $						
 11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
	2.73%						
12.		REPORTING PERSON*					
	PN						

|--|

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)							
			nagement Company, L.P.					
2.			PROPRIATE BOX IF A MEMBER OF A GROUP*	(a)  _  (b)  X				
3.	SEC USE	ONLY						
4.	CITIZENS	HIP	OR PLACE OF ORGANIZATION					
	New York							
		5.	SOLE VOTING POWER					
			Θ					
	BER OF	6.	6. SHARED VOTING POWER					
BENE		1,542,263						
E	ED BY ACH	7.	SOLE DISPOSITIVE POWER					
REPORTING PERSON WITH			-					
			SHARED DISPOSITIVE POWER					
		:	1,542,263					
9.	AGGREGAT	E AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	1,542,26	3						
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* $ \_ $							
 11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)							
±±.	5.0%							
			RTING PERSON*					
12.	PN		KTING TERSON					

# 13G

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)					
	Deerfiel	d Special Situations Fund International Limited				
2.			(a)  _  (b)  X			
3.	. SEC USE ONLY					
4.		HIP OR PLACE OF ORGANIZATION				
	British	Virgin Islands				
		5. SOLE VOTING POWER				
		0				
NUMBER OF SHARES BENEFICIALLY OWNED BY		6. SHARED VOTING POWER				
		1,542,263				
E	ACH	7. SOLE DISPOSITIVE POWER				
REPORTING PERSON		Θ				
W	ITH	8. SHARED DISPOSITIVE POWER				
	1,542,263					
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	1,542,26	3				
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* $ _ $					
 11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	5.0%					
 12.	TYPE OF	REPORTING PERSON*				
	C0					

	CUSIP	No.	00202J104
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## 13G

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)				
	James E.	Flynn			
2.	СНЕСК ТН	E APPROPRIATE BOX IF A MEMBER OF A GROUP*	(a)  _  (b)  X		
3.	SEC USE	ONLY			
4.		HIP OR PLACE OF ORGANIZATION			
	United S	itates			
		5. SOLE VOTING POWER			
		Θ			
NUN	MBER OF	6. SHARED VOTING POWER			
SHARES BENEFICIALLY	2,383,712				
	NED BY EACH	7. SOLE DISPOSITIVE POWER			
	PORTING ERSON	Θ			
WITH		8. SHARED DISPOSITIVE POWER			
		2,383,712			
 9.	AGGREGAT	E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	2,383,71	2			
 10.		X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SH	ARES*  _		
 11.	PERCENT	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	7.74%				
 12.	TYPE OF	REPORTING PERSON*			
	IN				

CUSIP No. 00202J104 Item 1(a). Name of Issuer: AP Pharma Inc. -----Item 1(b). Address of Issuer's Principal Executive Offices: 123 Saginay Drive Redwood City, CA 94063 -----\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ Item 2(a). Name of Person Filing: James E. Flynn, Deerfield Capital, L.P., Deerfield Special Situations Fund, L.P., Deerfield Management Company, L.P., Deerfield Special Situations Fund International Limited Item 2(b). Address of Principal Business Office, or if None, Residence: James E. Flynn, Deerfield Capital, L.P., Deerfield Special Situations Fund, L.P., Deerfield Management Company, L.P., 780 Third Avenue, 37th Floor, New York, NY 10017, Deerfield Special Situations Fund International Limited, c/o Bisys Management, Bison Court, Columbus Centre, P.O. Box 3460, Road Town, Tortola, British Virgin Islands \_\_\_\_\_ Item 2(c). Citizenship: Deerfield Capital, L.P. and Deerfield Special Situations Fund, L.P. - Delaware limited partnerships, Deerfield Management Company, L.P. - New York limited partnership, Deerfield Special Situations Fund International Limited- British Virgin Islands corporation James E. Flynn - United States citizen Item 2(d). Title of Class of Securities: Common Stock \_\_\_\_\_ Item 2(e). CUSIP Number: 00202J104 . . . . . . . . . Item 3. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a: [\_] Broker or dealer registered under Section 15 of the Exchange (a) Act. (b)  $|_|$  Bank as defined in Section 3(a)(6) of the Exchange Act.  $|_{-}|$  Insurance company as defined in Section 3(a)(19) of the Exchange (C) Act. (d) [\_] Investment company registered under Section 8 of the Investment Company Act. |\_| An investment adviser in accordance with Rule (e)

13d-1(b)(1)(ii)(E);

- (f) |\_| An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
- (g) |\_| A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);
- (h) |\_| A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act;
- (i) |\_| A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act;
- (j) |\_| Group, in accordance with Rule 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) Amount beneficially owned:

Deerfield Capital, L.P. - 841,449 shares Deerfield Special Situations Fund, L.P. - 841,449 shares Deerfield Management Company, L.P. - 1,542,263 shares Deerfield Special Situations Fund International Limited - 1,542,263 shares James E. Flynn - 2,383,712 shares

(b) Percent of class:

Deerfield Capital, L.P. - 2.73% Deerfield Special Situations Fund, L.P. - 2.73% Deerfield Management Company, L.P. - 5.0% Deerfield Special Situations International Limited - 5.0% James E. Flynn - 7.74%

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

(i) Sole power to vote or to direct the vote:

All Reporting Persons - 0

(ii) Shared power to vote or to direct the vote

Deerfield Capital, L.P. - 841,449 Deerfield Special Situations Fund, L.P. - 841,449 Deerfield Management Company, L.P. - 1,542,263 Deerfield Special Situations Fund International Limited - 1,542,263 James E. Flynn -2,383,712

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(iii)	Sole	power	to	dispose	or	to	direct	the	
	dispo	ositior							

All Reporting Persons - 0

(ii) Shared power to vote or to direct the vote

Deerfield Capital, L.P. - 841,449 Deerfield Special Situations Fund, L.P. - 841,449 Deerfield Management Company, L.P. - 1,542,263 Deerfield Special Situations Fund International Limited - 1,542,263 James E. Flynn -2,383,712

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.

If any other person is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, such securities, a statement to that effect should be included in response to this item and, if such interest relates to more than five percent of the class, such person should be identified. A listing of the shareholders of an investment company registered under the Investment Company Act of 1940 or the beneficiaries of employee benefit plan, pension fund or endowment fund is not required.

N/A

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Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

If a parent holding company or Control person has filed this schedule, pursuant to Rule 13d-1(b)(1)(ii)(G), so indicate under Item 3(g) and attach an exhibit stating the identity and the Item 3 classification of the relevant subsidiary. If a parent holding company or control person has filed this schedule pursuant to Rule 13d-1(c) or Rule 13d-1(d), attach an exhibit stating the identification of the relevant subsidiary.

N/A

Item 8. Identification and Classification of Members of the Group.

If a group has filed this schedule pursuant to ss.240.13d-1(b)(1)(ii)(J), so indicate under Item 3(j) and attach an exhibit stating the identity and Item 3 classification of each member of the group. If a group has filed this schedule pursuant to ss.240.13d-1(c) or ss.240.13d-1(d), attach an exhibit stating the identity of each member of the group.

See Exhibit B

Item 9. Notice of Dissolution of Group.

Notice of dissolution of a group may be furnished as an exhibit stating the date of the dissolution and that all further filings with respect to transactions in the security reported on will be filed, if required, by members of the group, in their individual capacity. See Item 5.

N/A

Item 10. Certifications.

"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 such 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.

- DEERFIELD CAPITAL, L.P.
- By: J.E. Flynn Capital LLC, General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory
- DEERFIELD SPECIAL SITUATIONS FUND, L.P.
- By: Deerfield Capital, L.P.
- By: J.E. Flynn Capital LLC, General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory

DEERFIELD MANAGEMENT COMPANY, L.P.

- By: Flynn Management LLC General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory

DEERFIELD SPECIAL SITUATIONS FUND INTERNATIONAL LIMITED

- By: Deerfield Management Company
- By: Flynn Management LLC, General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory

JAMES E. FLYNN

Date: February 14, 2008

Exhibit A. Joint Filing Agreement.

Exhibit B. Item 8 Statement.

Exhibit C. (1) Power of Attorney.

(1) Previously field as Exhibit 24 to a Form 4 with regard to PAR Pharmaceutical Companies, Inc. field with the Commission of February 1, 2007 Deerfield Capital L.P.; Deerfield Partners, L.P.; Deerfield Management Company, L.P.; Deerfield International Limited; Deerfield Special Situations Fund, L.P.; Deerfield Special Situations Fund International Limited; and James E Flynn.

#### Exhibit A

#### Agreement

The undersigned agree that this Schedule 13G, and all amendments thereto, relating to the Common Stock of AP Pharma Inc. shall be filed on behalf of the undersigned.

- DEERFIELD CAPITAL, L.P.
- By: J.E. Flynn Capital LLC, General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory
- DEERFIELD SPECIAL SITUATIONS FUND, L.P.
- By: Deerfield Capital, L.P.
- By: J.E. Flynn Capital LLC, General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory

DEERFIELD MANAGEMENT COMPANY, L.P.

- By: Flynn Management LLC General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory

DEERFIELD SPECIAL SITUATIONS FUND INTERNATIONAL LIMITED

By: Deerfield Management Company

- By: Flynn Management LLC, General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory

JAMES E. FLYNN

/s/ Darren Levine Darren Levine, Attorney-In-Fact

### Exhibit B

Due to the relationships between them, the reporting persons hereunder may be deemed to constitute a "group" with one another for purposes of Section 13(d)(3) of the Securities Exchange Act of 1934.