Flynn James E Form SC 13G/A February 03, 2011

SECURITIES AND EXCHANGE COMMISSION 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. 3) *

RadNet, Inc.

(Name of Issuer)

Common Stock

(Title of Class of Securities)

750491102

(CUSIP Number)

December 31, 2010

(Date of Event which Requires Filing of this Statement)

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 12 Pages)

^{*} 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).

Page 2 of 12 Pages

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)			
	Deerfield Capital, L.P.			
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A(a) oGROUP*(b) ý			
3.	SEC USE ONLY			
4.	CITIZENSHIP OR PLACE OF ORGANIZATION			
	Delaware			
	5.	SOLE VOTING POWER		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		0		
	6.	SHARED VOTING POWER		
		1,245,510(1)		
	7.	SOLE DISPOSITIVE VOTING POWER		
		0		
	8.	SHARED DISPOSITIVE VOTING	POWER	
		1,245,510(1)		
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	1,245,510(1)			
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES*			
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9			
	3.37%			
12.	TYPE OF REPORTING PERSON*			
	PN			

(1) Comprised of 619,702 shares of common stock held by Deerfield Partners, L.P. and 625,808 shares of common stock held by Deerfield Special Situations Fund, L.P.

Page 3 of 12 Pages

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)		
	Deerfield Partners, L.P.		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A(a) oGROUP*(b) ý		
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLACE OF ORGANIZATION		
	Delaware		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6.	SHARED VOTING POWER	
		619,702	
	7.	SOLE DISPOSITIVE VOTING POWER	
		0	
	8.	SHARED DISPOSITIVE VOTING POWER	
		619,702	
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	619,702		
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES*		
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
	1.68%		
12.	TYPE OF REPORTING PERSON*		
	PN		

Page 4 of 12 Pages

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)			
	Deerfield Special Situations Fund, L.P.			
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*		(a) o (b) ý	
3.	SEC USE ONLY			
4.	CITIZENSHIP OR PLACE OF ORGANIZATION			
	Delaware			
	5.	SOLE VOTING POWER		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		0		
	6.	SHARED VOTING POWER		
		625,808		
	7.	SOLE DISPOSITIVE VOTING PC	OWER	
		0		
	8.	SHARED DISPOSITIVE VOTING	POWER	
		625,808		
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	625,808			
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES*			
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9			
	1.69%			
12.	TYPE OF REPORTING PERSON*			
	PN			

Page 5 of 12 Pages

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)		
	Deerfield Management Company, L.P.		
2.	CHECK THE APP GROUP*	ROPRIATE BOX IF A MEMBER OF A (a) o (b) ý	
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLACE OF ORGANIZATION		
	Delaware		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6.	SHARED VOTING POWER	
		1,898,216(2)	
	7.	SOLE DISPOSITIVE VOTING POWER	
		0	
	8.	SHARED DISPOSITIVE VOTING POWER	
		1,898,216(2)	
9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EA PERSON		AMOUNT BENEFICIALLY OWNED BY EACH REPORTING	
	1,898,216(2)		
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES*		
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
	5.13%		
12.	TYPE OF REPORTING PERSON*		
	PN		

(2) Comprised of 877,162 shares of common stock held by Deerfield International Limited and 1,021,054 shares of common stock held by Deerfield Special Situations Fund International Limited.

Page 6 of 12 Pages

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)			
	Deerfield International Limited			
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A(a) oGROUP*(b) ý			
3.	SEC USE ONLY			
4.	CITIZENSHIP OR PLACE OF ORGANIZATION			
	British Virgin Islands			
	5.	SOLE VOTING POWER		
NUMBER OF		0		
SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6.	SHARED VOTING POWER		
		877,162		
	7.	SOLE DISPOSITIVE VOTING PO	WER	
		0		
	8.	SHARED DISPOSITIVE VOTING	POWER	
		877,162		
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	877,162			
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES*			
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9			
	2.37%			
12.	TYPE OF REP	ORTING PERSON*		
	СО			

Page 7 of 12 Pages

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)		
	Deerfield Specia	al Situations Fund International Limit	ted
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A(a) oGROUP*(b) ý		
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLACE OF ORGANIZATION		
	British Virgin Islands		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES BENEFICIALLY	6.	SHARED VOTING POWER	
OWNED BY EACH		1,021,054	
REPORTING PERSON WITH	7.	SOLE DISPOSITIVE VOTING PO	WER
		0	

10