UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 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. 5)1

	Rigel Pharmaceuticals, Inc. (Name of Issuer)
	Common Stock, par value \$0.001 per share (Title of Class of Securities)
	(Title of Class of Securities)
	766559603
	(CUSIP Number)
	March 10, 2014
	(Date of Event Which Requires Filing of this Statement)
Check the appr	ropriate 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)
1 The remaind	er 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 co	intaining information which would alter the disclosures provided in a prior cover page.
	e 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 erwise 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).

1	NAME OF REPORTING PERSON				
	Biotechnology Value Fund, L.P.				
2	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) 🗵		
			(b) □		
3	SEC USE ONLY				
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION			
	Delaware				
NUMBER OF SHARES	5	SOLE VOTING POWER			
BENEFICIALLY					
OWNED BY EACH		0 shares			
REPORTING PERSON	6	SHARED VOTING POWER			
WITH					
		164,131			
	7 SOLE DISPOSITIVE POWER				
	0 shares				
	8	8 SHARED DISPOSITIVE POWER			
		164,131			
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	164,131				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	Less than 1%				
12	TYPE OF REPORTING	PERSON			
	PN				

1	NAME OF REPORTING PERSON					
		Biotechnology Value Fund II, L.P.				
2	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) 🗵			
	ana man on man		(b) □			
3	SEC USE ONLY					
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION				
T	CITIZENSIIII OKTEA	CE OF OROMAL/MON				
	Delaware					
NUMBER OF SHARES	5	SOLE VOTING POWER				
BENEFICIALLY						
OWNED BY EACH		0 shares				
REPORTING PERSON WITH	6	SHARED VOTING POWER				
WIIII		96.529				
	7	,				
	, 6022 213. 6311. 216 1121.					
	0 shares					
	8	SHARED DISPOSITIVE POWER				
	07.720					
9	96,529					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	96,529					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
	· · ·					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	T 1 10/					
12	Less than 1% TYPE OF REPORTING	DED COM				
12	TIFE OF KEPOKIINO	FERSON				
	PN					

1	NAME OF REPORTING PERSON					
	BVF Investments, L.L.C.					
2	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □			
3	SEC USE ONLY					
4	CITIZENSHIP OR PLA	CITIZENSHIP OR PLACE OF ORGANIZATION				
	Delaware					
NUMBER OF SHARES	5	SOLE VOTING POWER				
BENEFICIALLY OWNED BY EACH		0 shares				
REPORTING PERSON WITH	6					
		2,270,541				
	7 SOLE DISPOSITIVE POWER					
	0 shares					
	8 SHARED DISPOSITIVE POWER					
	2,270,541					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	2.270.541					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	2.60/					
12	2.6% TYPE OF REPORTING PERSON					
	00					

1	NAME OF REPORTING PERSON				
	Investment 10, L.L.C.				
2	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □		
3	SEC USE ONLY				
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION			
	Illinois				
NUMBER OF SHARES BENEFICIALLY	5	SOLE VOTING POWER			
OWNED BY EACH		0 shares			
REPORTING PERSON WITH	6 SHARED VOTING POWER				
		45,506			
	7 SOLE DISPOSITIVE POWER				
	0 shares				
	8 SHARED DISPOSITIVE POWER				
	45,506				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	45,506				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	Less than 1%				
12	TYPE OF REPORTING	PERSON			
	00				

1	NAME OF REPORTING PERSON				
	BVF Partners L.P.				
2	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □		
3	SEC USE ONLY				
4	CITIZENSHIP OR PLA	CITIZENSHIP OR PLACE OF ORGANIZATION			
	Delaware				
NUMBER OF SHARES	5	SOLE VOTING POWER			
BENEFICIALLY OWNED BY EACH		0 shares			
REPORTING PERSON	6	SHARED VOTING POWER			
WITH	0	SHARED VOTING TOWER			
		2,576,707			
	7	7 SOLE DISPOSITIVE POWER			
	0 shares				
	8 SHARED DISPOSITIVE POWER				
		2,576,707			
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	2,576,707	2.57(.707			
10		CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
	CHECK BOTH THE TOGKE STILL TWOOTT IN KOW (7) ENCEODES CERTAIN SHIRKES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	2007				
12	2.9% TYPE OF REPORTING PERSON				
12	I I I E OF KEFOKTING	LENDON			
	PN, IA				

1	NAME OF REPORTING PERSON					
	BVF Inc.					
2	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □			
3	SEC USE ONLY					
4	CITIZENSHIP OR PLA	CITIZENSHIP OR PLACE OF ORGANIZATION				
	Delaware					
NUMBER OF SHARES	5	SOLE VOTING POWER				
BENEFICIALLY OWNED BY EACH		0 shares				
REPORTING PERSON	6	SHARED VOTING POWER				
WITH		2.584.505				
	7	2,576,707				
	7 SOLE DISPOSITIVE POWER					
	0 shares					
	8 SHARED DISPOSITIVE POWER					
	2,576,707					
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	2.576.707					
10		AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
	N.					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	2.9%					
12		TYPE OF REPORTING PERSON				
	CO					

1	NAME OF REPORTING PERSON					
	Mark N. Lampert					
2		RIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □			
3	SEC USE ONLY					
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION				
	United States					
NUMBER OF SHARES	5	SOLE VOTING POWER				
BENEFICIALLY OWNED BY EACH		0 shares				
REPORTING PERSON WITH	6 SHARED VOTING POWER					
		2,576,707				
	7 SOLE DISPOSITIVE POWER					
	0 shares					
	8 SHARED DISPOSITIVE POWER					
	2,576,707					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	2.576,707					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
12	2.9% TYPE OF REPORTING PERSON					
12	TIPE OF KEPOKIING	TERSUN				
	IN					

Item 1(a). Name of Issuer:

Rigel Pharmaceuticals, Inc., a Delaware corporation (the "Issuer").

Item 1(b). Address of Issuer's Principal Executive Offices:

1180 Veterans Boulevard

South San Francisco, California 94080

Item 2(a). Name of Person Filing

Item 2(b). Address of Principal Business Office or, if None, Residence

Item 2(c). Citizenship

Biotechnology Value Fund, L.P. ("BVF") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611

Chicago, Illinois 6061 Citizenship: Delaware

Biotechnology Value Fund II, L.P. ("BVF2") 900 North Michigan Avenue, Suite 1100

Chicago, Illinois 60611 Citizenship: Delaware

BVF Investments, L.L.C. ("BVLLC") 900 North Michigan Avenue, Suite 1100

Chicago, Illinois 60611 Citizenship: Delaware

Investment 10, L.L.C. ("ILL10") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Illinois

BVF Partners L.P. ("Partners") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Delaware

BVF Inc.

900 North Michigan Avenue, Suite 1100

Chicago, Illinois 60611 Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 900 North Michigan Avenue, Suite 1100

Chicago, Illinois 60611 Citizenship: United States

Each of the foregoing is referred to as a "Reporting Person" and collectively as the "Reporting Persons."

Item 2(d). Title of Class of Securities:

Common Stock, par value \$0.001 per share (the "Common Stock")

Item 2(e). CUSIP Number:

766559603

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:

- /x/ Not applicable.
- (a) // Broker or dealer registered under Section 15 of the Exchange Act.
- (b) // Bank as defined in Section 3(a)(6) of the Exchange Act.
- (c) // Insurance company as defined in Section 3(a)(19) of the Exchange Act.
- (d) // Investment company registered under Section 8 of the Investment Company Act.
- (e) // An investment adviser in accordance with Rule 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).
- (k) // Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Rule 240.13d-1(b)(1) (ii)(J), please specify the type of institution: ____

Item 4. Ownership

(a) Amount beneficially owned:

As of the close of business on March 10, 2014, (i) BVF beneficially owned 164,131 shares of Common Stock, (ii) BVF2 beneficially owned 96,529 shares of Common Stock, (iii) BVLLC beneficially owned 2,270,541 shares of Common Stock, and (iv) ILL10 beneficially owned 45,506 shares of Common Stock.

Partners, as the general partner of BVF and BVF2, the manager of BVLLC and the investment adviser of ILL10, may be deemed to beneficially own the 2,576,707 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2, BVLLC and ILL10.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 2,576,707 shares of Common Stock beneficially owned by

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 2,576,707 shares of Common Stock beneficially owned by BVF Inc.

The foregoing should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of any shares of Common Stock owned by another Reporting Person. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF, BVF2, BVLLC and ILL10 and the filing of this statement shall not be construed as an admission that any such person or entity is the beneficial owner of any such securities.

(b) Percent of class:

The following percentages are based on 87,524,349 shares of Common Stock outstanding as of February 26, 2014, as disclosed in the Issuer's Annual Report on Form 10-K filed with the Securities and Exchange Commission (the "SEC") on March 4, 2014.

As of the close of business on March 10, 2014, (i) BVF beneficially owned less than 1% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned less than 1% of the outstanding shares of Common Stock, (iii) BVLLC beneficially owned approximately 2.6% of the outstanding shares of Common Stock, (iv) ILL10 beneficially owned less than 1% of the outstanding shares of Common Stock and (v) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 2.9% of the outstanding shares of Common Stock.

- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote

See Cover Pages Items 5-9.

- (ii) Shared power to vote or to direct the vote
 - See Cover Pages Items 5-9.
- (iii) Sole power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

(iv) Shared power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

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

As of March 10, 2014, the Reporting Persons ceased to be beneficial owners of more than 5% of the Common Stock.

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Not Applicable.

Item 7. Identification and Classification of the Subsidiary That 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.

See Exhibit 99.1 to the initial Schedule 13G filed with the SEC on June 6, 2011.

Item 9. Notice of Dissolution of Group.

Not Applicable.

Item 10. Certifications.

By signing below each of the undersigned certifies that, to the best of its 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 his knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: March 12, 2014

BIOTECHNOLOGY VALUE FUND, L.P.

By: BVF Partners L.P., its general partner

By: BVF Inc., its general partner

/s/ Mark N. Lampert By:

Mark N. Lampert President

BIOTECHNOLOGY VALUE FUND II, L.P.

BVF Partners L.P., its general partner By:

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF INVESTMENTS, L.L.C.

By: BVF Partners L.P., its manager

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

INVESTMENT 10, L.L.C.

By: BVF Partners L.P., its investment manager

By: BVF Inc., its general partner

/s/ Mark N. Lampert By:

Mark N. Lampert

President

BVF PARTNERS L.P.

BVF Inc., its general partner By:

/s/ Mark N. Lampert By:

Mark N. Lampert President

BVF INC.

By: /s/ Mark N. Lampert

Mark N. Lampert

President

/s/ Mark N. Lampert MARK N. LAMPERT