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. 2)1

Rigel Pharmaceuticals, Inc.
(Name of Issuer)
Common Stock, par value \$0.001 per share
(Title of Class of Securities)
766559603
(CUSIP Number)
December 31, 2012
(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)
⊠ 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 193 ("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, <i>see</i> the <i>Notes</i>).

1	NAME OF REPORTING PERSON				
	Biotechnology Value Fund, L.P.				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ⊠ (b) □				
3	SEC USE ONLY				
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION			
	Delaware				
NUMBER OF SHARES BENEFICIALLY	5	SOLE VOTING POWER			
OWNED BY EACH		0 shares			
REPORTING PERSON WITH	6	SHARED VOTING POWER			
		1,346,476			
	7	7 SOLE DISPOSITIVE POWER			
		0 shares			
	8	SHARED DISPOSITIVE POWER			
		1,346,476			
9	AGGREGATE AMOUN	T BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	1,346,476				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	1.5%				
12	TYPE OF REPORTING	PERSON			
	PN				

1	NAME OF REPORTING PERSON				
	Biotechnology Value Fund II, L.P.				
2		CHECK THE APPROPRIATE 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 WITH	6				
		774,632			
	7	7 SOLE DISPOSITIVE POWER			
		0 shares			
	8	SHARED DISPOSITIVE POWER			
		774,632			
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	774,632				
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					
	BVF Investments, L.L.C.					
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (a)					
	and tian over t		(b) □			
3	SEC USE ONLY					
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION				
	Delaware					
NUMBER OF SHARES	5	SOLE VOTING POWER				
BENEFICIALLY						
OWNED BY EACH REPORTING PERSON	6	0 shares				
WITH	O	6 SHARED VOTING POWER				
		5,233,344				
	7	SOLE DISPOSITIVE POWER				
		0 shares				
	8	SHARED DISPOSITIVE POWER				
		5,233,344				
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
ĺ	11051tLG/11L/11viOU	DELECTION OF THE DI ENGINEER ON THE OF THE ONE				
	5,233,344					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
12	6.0%	N DED CON				
12	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	6 SHARED VOTING POWER			
		513,545			
	7	7 SOLE DISPOSITIVE POWER			
		0 shares			
	8	SHARED DISPOSITIVE POWER			
		513,545			
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	513,545				
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	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (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	0	SHARED VOTINGTOWER		
		7,867,997		
	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		7,867,997		
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	7,867,997			
10		GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
	CHECK BOX II THE ROOKE STITE THROUGH IN NOW (7) EXCELODES CERTIAIN SHINKES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	9.0%			
12	TYPE OF REPORTING	DEDSON		
12	I I I E OF KEFOR IING	1 ERSON		
	PN, IA			

1	NAME OF REPORTING PERSON				
	BVF Inc.				
2	CHECK THE APPROP	CHECK THE APPROPRIATE 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	O	SHARED VOTINGTOWER			
		7,867,997			
	7	7 SOLE DISPOSITIVE POWER			
		0 shares			
	8	SHARED DISPOSITIVE POWER			
		7,867,997			
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	7,867,997				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	9.0%				
12	TYPE OF REPORTING	PERSON			
1-2					
	CO				

1	NAME OF REPORTING PERSON				
	Mark N. Lampert				
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			
	United States				
NUMBER OF SHARES	5	SOLE VOTING POWER			
BENEFICIALLY OWNED BY EACH		0 shares			
REPORTING PERSON	6	SHARED VOTING POWER			
WITH					
		7,867,997			
	7	7 SOLE DISPOSITIVE POWER			
		0 shares			
	8	SHARED DISPOSITIVE POWER			
		7,867,997			
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	7,867,997				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	9.0%				
12	TYPE OF REPORTING	PERSON			
	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:

(ii)(J), please specify the type of institution:

- Not applicable. (a) // Broker or dealer registered under Section 15 of the Exchange Act. Bank as defined in Section 3(a)(6) of the Exchange Act. (b) // // (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. // An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E). (e) // 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. // A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company (i) (j) // Group, in accordance with Rule 13d-1(b)(1)(ii)(J).
- Item 4. Ownership

(k)

(a) Amount beneficially owned:

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As of the close of business on December 31, 2012, (i) BVF beneficially owned 1,346,476 shares of Common Stock, (ii) BVF2 beneficially owned 774,632 shares of Common Stock, (iii) BVLLC beneficially owned 5,233,344 shares of Common Stock, and (iv) ILL10 beneficially owned 513,545 shares of Common Stock.

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)

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 7,867,997 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 7,867,997 shares of Common Stock beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 7,867,997 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 87,000,253 shares of Common Stock outstanding as of October 31, 2012, as disclosed in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission (the "SEC") on November 6, 2012.

As of the close of business on December 31, 2012, (i) BVF beneficially owned approximately 1.5% 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 6.0% 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 9.0% 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.

Not Applicable.

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

Pursuant to the operating agreement of BVLLC, Partners is authorized, among other things, to invest the contributed capital of Samana Capital, L.P., the majority member of BVLLC, in the shares of Common Stock and other securities of the Issuer and to vote, exercise or convert and dispose of each security, and is entitled to receive fees based on assets under management and, subject to certain exceptions, allocations based on realized and unrealized gains on such assets.

Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the shares of Common Stock beneficially owned by BVF, BVF2, BVLLC and ILL10.

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: February 14, 2013

BIOTECHNOLOGY VALUE FUND, L.P.

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

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert
Mark N. Lampert

President

BIOTECHNOLOGY VALUE FUND II, L.P.

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

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

By: /s/ Mark N. Lampert

Mark N. Lampert President

BVF PARTNERS L.P.

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF INC.

By: /s/ Mark N. Lampert

Mark N. Lampert

President

/s/ Mark N. Lampert

MARK N. LAMPERT