# 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. )<sup>1</sup>

	Rigel Pharmaceuticals, Inc.
	(Name of Issuer)
	Common Stock, par value \$0.001 per share
	(Title of Class of Securities)
	766559603
	(CUSIP Number)
	May 26, 2011
	(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-	I(d)
amendment containing inf  The information	wer 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 ormation which would alter the disclosures provided in a prior cover page.  In 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 ct 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		RIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □			
3	SEC USE ONLY		(0) Ц			
4	CITIZENSHIP OR PLAC	CE OF ORGANIZATION				
	Delaware					
NUMBER OF SHARES BENEFICIALLY	5	SOLE VOTING POWER				
OWNED BY EACH		0 shares				
REPORTING PERSON WITH	6					
		1,249,474				
	7	SOLE DISPOSITIVE POWER				
		0 shares				
	8	SHARED DISPOSITIVE POWER				
	1,249,474					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	1,249,474					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	1.8%					
12	TYPE OF REPORTING	PERSON				
	PN					

1	NAME OF REPORTING PERSON				
	Biotechnology Value Fund II, L.P.				
2	CHECK THE APPROPE	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 BENEFICIALLY	5	SOLE VOTING POWER			
OWNED BY EACH		0 shares			
REPORTING PERSON WITH	6				
		841,000			
	7	SOLE DISPOSITIVE POWER			
		0 shares			
	8	SHARED DISPOSITIVE POWER			
	841,000				
9	AGGREGATE AMOUN	IT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	841,000				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	1.2%				
12	TYPE OF REPORTING	PERSON			
	PN				

1	NAME OF REPORTING PERSON				
	BVF Investments, L.L.C.				
2		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	O	SHARED VOINGTOWER			
		3,236,000			
	7	SOLE DISPOSITIVE POWER			
	0 shares				
	8	SHARED DISPOSITIVE POWER			
	3,236,000				
9	AGGREGATE AMOUN	IT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	3,236,000	3 236 000			
10		CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
	_				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	4.70/				
12		4.7% TYPE OF REPORTING PERSON			
12	1111 OF REFORTING	LIMON			
	00				

1	NAME OF REPORTING PERSON						
	/	Investment 10, L.L.C.					
2	CHECK THE APPROPI	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	5	SOLE VOTING POWER					
BENEFICIALLY	_						
OWNED BY EACH		0 shares					
REPORTING PERSON	6	SHARED VOTING POWER					
WITH	o o	STANCED VOTINGTOWER					
	371,000						
	7	SOLE DISPOSITIVE POWER					
	SOLE DISPOSITIVE FOWER						
	0 shares						
	8	SHARED DISPOSITIVE POWER					
	8	SHARED DISTOSITIVE TOWER					
		371,000					
9	/						
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON						
	271.000						
10	371,000						
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □						
	DED CENT OF CLASS DEPRESENTED BY A MOUNT BY DOW (0)						
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 APPROPR	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 BENEFICIALLY	5	SOLE VOTING POWER			
OWNED BY EACH		0 shares			
REPORTING PERSON WITH	6				
		5,697,474			
	7	SOLE DISPOSITIVE POWER			
		0 shares			
	8	SHARED DISPOSITIVE POWER			
	5,697,474				
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	5,697,474				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	8.3%				
12	TYPE OF REPORTING	PERSON			
	PN, IA	PN, IA			

1	NAME OF REPORTING PERSON				
	BVF Inc.				
2	CHECK THE APPROPE	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 BENEFICIALLY	5	SOLE VOTING POWER			
OWNED BY EACH		0 shares			
REPORTING PERSON WITH	6				
		5,697,474			
	7	SOLE DISPOSITIVE POWER			
		0 shares			
	8	SHARED DISPOSITIVE POWER			
	5,697,474				
9	AGGREGATE AMOUN	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	5,697,474				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	8.3%				
12	TYPE OF REPORTING	PERSON			
	СО				

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	6	SHARED VOTING POWER			
WITH	0	SHARED VOTING FOWER			
		5,697,474			
	7	SOLE DISPOSITIVE POWER			
		0 shares			
	8	SHARED DISPOSITIVE POWER			
	5,697,474				
9	AGGREGATE AMOUN	VT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	5 607 474	5 (07 474			
10		5,697,474  CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
10	CHECK DOA II' THE AGGREGATE AWOUNT IN NOW (5) EACLODES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	• • • • • • • • • • • • • • • • • • • •				
	8.3%				
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 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 June 3, 2011, (i) BVF beneficially owned 1,249,474 shares of Common Stock, (ii) BVF2 beneficially owned 841,000 shares of Common Stock, (iii) BVLLC beneficially owned 3,236,000 shares of Common Stock, and (iv) ILL10 beneficially owned 371,000 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 5,697,474 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 5,697,474 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 5,697,474 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:

Based on 68,579,117 shares of Common Stock outstanding as disclosed in the Issuer's Prospectus Supplement filed pursuant to Rule 424(b)(5) of the Securities Act of 1933, as amended, with the Securities and Exchange Commission on May 26, 2011.

As of the close of business on June 3, 2011, (i) BVF beneficially owned approximately 1.8% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 1.2% of the outstanding shares of Common Stock, (iii) BVLLC beneficially owned approximately 4.7% 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 8.3% 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.

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: June 6, 2011

President

BIOTECHNOLOGY VALUE FUND, L.P.		INVEST	INVESTMENT 10, L.L.C.		
By:	BVF Partners L.P., its general partner	By:	BVF Partners L.P., its investment manager		
By:	BVF Inc., its general partner	By:	BVF Inc., its general partner		
Ву:	/s/ Mark N. Lampert Mark N. Lampert President	By:	/s/ Mark N. Lampert Mark N. Lampert President		
BIOTEC	CHNOLOGY VALUE FUND II, L.P.	BVF PA	RTNERS L.P.		
By:	BVF Partners L.P., its general partner	By:	BVF Inc., its general partner		
By:	BVF Inc., its general partner	By:	/s/ Mark N. Lampert		
By:	/s/ Mark N. Lampert Mark N. Lampert President		Mark N. Lampert President		
	riesiuciii	BVF IN	C.		
BVF IN	VESTMENTS, L.L.C.	By:	/s/ Mark N. Lampert		
By:	BVF Partners L.P., its manager		Mark N. Lampert President		
By:	BVF Inc., its general partner				
By:	/s/ Mark N. Lampert Mark N. Lampert		/s/ Mark N. Lampert MARK N. LAMPERT		

## Joint Filing Agreement

The undersigned hereby agree that the Statement on Schedule 13G dated June 6, 2011 with respect to the shares of Common Stock of Rigel Pharmaceuticals, Inc., and any further amendments thereto executed by each and any of the undersigned shall be filed on behalf of each of the undersigned pursuant to and in accordance with the provisions of Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended.

Dated: June 6, 2011

By:

/s/ Mark N. Lampert

Mark N. Lampert President

BIOTECHNOLOGY VALUE FUND, L.P.		INVEST	INVESTMENT 10, L.L.C.	
By:	BVF Partners L.P., its general partner	By:	BVF Partners L.P., its investment manager	
By:	BVF Inc., its general partner	By:	BVF Inc., its general partner	
Ву:	/s/ Mark N. Lampert Mark N. Lampert President	Ву:	/s/ Mark N. Lampert Mark N. Lampert President	
BIOTEC	HNOLOGY VALUE FUND II, L.P.	BVF PAI	RTNERS L.P.	
By:	BVF Partners L.P., its general partner	By:	BVF Inc., its general partner	
By:	BVF Inc., its general partner	By:	/s/ Mark N. Lampert	
Ву:	/s/ Mark N. Lampert Mark N. Lampert President		Mark N. Lampert President	
	1.15/10/11	BVF INC	2.	
BVF INV	VESTMENTS, L.L.C.	By:	/s/ Mark N. Lampert	
By:	BVF Partners L.P., its manager		Mark N. Lampert President	
By:	BVF Inc., its general partner			

/s/ Mark N. Lampert

MARK N. LAMPERT