# 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)<sup>1</sup>

Flamel Technologies S.A.
(Name of Issuer)
Ordinary Shares, Nominal Value (Euro) 0.122 Per Share Represented by American Depository Receipts
(Title of Class of Securities)
338488109
(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:

- o Rule 13d-1(b)
- x Rule 13d-1(c)
- o Rule 13d-1(d)

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 ("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, see the *Notes*).

<sup>&</sup>lt;sup>1</sup> 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.

1	NAME OF REPORTING PERSON					
		Biotechnology Value Fund, L.P.				
2	CHECK THE APPRO	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) x (b) o				
3	SEC USE ONLY					
4	CITIZENSHIP OR PI	LACE OF ORGANIZATION				
	Delaware					
NUMBER OF	5	SOLE VOTING POWER				
SHARES BENEFICIALLY		0 shares				
OWNED BY EACH	6	SHARED VOTING POWER				
REPORTING PERSON WITH		C1C 070				
PERSON WITH	010,070					
	7 SOLE DISPOSITIVE POWER					
	0 shares					
	8	SHARED DISPOSITIVE POWER				
		616,879				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	616,879					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	2.5%					
12	TYPE OF REPORTIN	NG PERSON				
	PN					

1	NAME OF REPO	PTING DEPSON			
1	NAME OF REPORTING PERSON				
	Biotechnology \	Value Fund II, L.P.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) x				
			(b) o		
3	SEC USE ONLY				
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION			
	Delaware				
NUMBER OF	5	SOLE VOTING POWER			
SHARES	3	SOLE VOINGTOWER			
BENEFICIALLY		0 shares			
OWNED BY EACH	6	SHARED VOTING POWER			
REPORTING					
PERSON WITH					
	7	SOLE DISPOSITIVE POWER			
		0 shares			
	8	SHARED DISPOSITIVE POWER			
		426,935			
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	426,935				
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11					
11	PERCENT OF CL	LASS REPRESENTED BY AMOUNT IN ROW (9)			
	1.8%				
12	TYPE OF REPOR	RTING PERSON			
	PN				

1	NAME OF REPORTING PERSON						
	BVF Investments, L.L.C.						
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) x (b) o						
3	SEC USE ONLY		. ,				
4	CITIZENSHIP OR P	LACE OF ORGANIZATION					
	Delaware						
NUMBER OF SHARES	5	SOLE VOTING POWER					
BENEFICIALLY		0 shares					
OWNED BY EACH	6	SHARED VOTING POWER					
REPORTING PERSON WITH		1 (20 200					
FERSON WITH	1,630,308  7 SOLE DISPOSITIVE POWER						
	0 shares						
	8	SHARED DISPOSITIVE POWER					
		1,630,308					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON						
	1,630,308						
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES						
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
	6.7%						
12	TYPE OF REPORTIN	NG PERSON					
	00						

1	NAME OF REPORTING PERSON					
	Investment 10, L.L.C.					
2		CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) x (b) o				
3	SEC USE ONLY					
4	CITIZENSHIP OR PI	LACE OF ORGANIZATION				
	Illinois					
NUMBER OF SHARES	5	SOLE VOTING POWER				
BENEFICIALLY		0 shares				
OWNED BY EACH	6	SHARED VOTING POWER				
REPORTING PERSON WITH	174,212					
	7 SOLE DISPOSITIVE POWER  0 shares					
	8	SHARED DISPOSITIVE POWER				
		174,212				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	174,212					
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 REPORTIN	NG PERSON				
	00					

1	NAME OF REPORTING PERSON						
	BVF Partners L.P.						
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) x						
_			(b) o				
3	SEC USE ONLY						
4	CITIZENSHIP OR PI	LACE OF ORGANIZATION					
	Delaware						
NUMBER OF	5	SOLE VOTING POWER					
SHARES BENEFICIALLY		0 shares					
OWNED BY EACH	6	SHARED VOTING POWER					
REPORTING	0	5 SHAKED VUTING POWEK					
PERSON WITH	2,848,334						
	7	SOLE DISPOSITIVE POWER					
	0 shares						
	8	SHARED DISPOSITIVE POWER					
		2,848,334					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON						
	2,848,334						
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES						
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
	· ·						
12	11.7% TYPE OF REPORTIN	IC DEDCOM					
12	I TPE OF KEPORIIN	NG PERSUN					
	PN, IA						

NAME OF REPORTING PERSON					
CHECK THE APPRO	PRIATE BOX IF A MEMBER OF A GROUP	(a) x			
SEC LISE ONLY		(b) o			
SEC USE ONLY					
CITIZENSHIP OR PL	ACE OF ORGANIZATION				
5	SOLE VOTING POWER				
	0 charce				
C					
Ö	SHARED VOTING POWER				
2 848 334					
ON WITH 2,848,334  7 SOLE DISPOSITIVE POWER					
0 shares					
8	SHARED DISPOSITIVE POWER				
	2,848,334				
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
2.242.224					
CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □					
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	TO PERSON.				
TYPE OF REPORTIN	IG PERSON				
CO					
	BVF Inc. CHECK THE APPRO SEC USE ONLY CITIZENSHIP OR PL Delaware 5 6 7 8 AGGREGATE AMOU 2,848,334 CHECK BOX IF THE PERCENT OF CLASS 11.7%	BVF Inc. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  SEC USE ONLY  CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware  5			

1	NAME OF REPO	RTING PERSON				
	Mark N. Lamper					
2	CHECK THE APP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) x (b) o			
3	SEC USE ONLY		(0) 0			
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION				
	United States					
NUMBER OF	5	SOLE VOTING POWER				
SHARES						
BENEFICIALLY		0 shares				
OWNED BY EACH	6 SHARED VOTING POWER					
REPORTING PERSON WITH	2.040.224					
TERSON WITH	7	2,848,334 SOLE DISPOSITIVE POWER				
	,	SOLE DISTOSTITVE FOWER				
		0 shares				
	8	SHARED DISPOSITIVE POWER				
		2,848,334				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	2,848,334					
10	2,848,334  CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  □					
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)				
	11.7%					
12	TYPE OF REPOR	TING PERSON				
	IN					

Item 1(a). Name of Issuer:

Flamel Technologies S.A. (the "Issuer").

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

Parc Club du Moulin à Vent 33 avenue du Docteur Georges Lévy 69693 Vénissieux Cedex France

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:

Ordinary Shares, Nominal Value (Euro) 0.122 Per Share Represented by American Depository Receipts (the "ADRs")

Item 2(e). CUSIP Number:

338488109

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 December 31, 2010, (i) BVF beneficially owned 616,879 ADRs, (ii) BVF2 beneficially owned 426,935 ADRs, (iii) BVLLC beneficially owned 1,630,308 ADRs and (iv) ILL10 beneficially owned 174,212 ADRs.

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 2,848,334 ADRs 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 2,848,334 ADRs beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 2,848,334 ADRs 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 ADRs owned by another Reporting Person. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the ADRs 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 24,422,600 ADRs outstanding as of September 30, 2010, as reported in the Issuer's Form 6-K filed with the Securities and Exchange Commission ("SEC") on January 21, 2011. As of the close of business on December 31, 2010, (i) BVF beneficially owned approximately 2.5% of the outstanding ADRs, (ii) BVF2 beneficially owned approximately 1.8% of the outstanding ADRs, (iii) BVLLC beneficially owned approximately 6.7% of the outstanding ADRs, (iv) ILL10 beneficially owned less than 1% of the outstanding ADRs and (v) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 11.7% of the outstanding ADRs.

- (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 ADRs 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 ADRs 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 Schedule 13G filed with the SEC on February 10, 2010.

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 11, 2011

BIOTE	BIOTECHNOLOGY VALUE FUND, L.P.		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		
By:	/s/ Mark N. Lampert Mark N. Lampert	By:	/s/ Mark N. Lampert Mark N. Lampert		
	President		President		
BIOTE	CHNOLOGY VALUE FUND II, L.P.	BVF PA	ARTNERS 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				
		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		/s/ Mark N. Lampert		
	Mark N. Lampert President		MARK N. LAMPERT		

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