# **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.  $)^1$ 

Selecta Biosciences, Inc.
(Name of Issuer)
Common Stock, \$0.0001 par value per share
(Title of Class of Securities)
816212104
(CUSIP Number)
December 23, 2019
(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 disclosures provided in a prior cover page.
The information required on 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 <i>Notes</i> ).

1	NAME OF REPORTING PERSON		
		ogy Value Fund, L.P.	
2	CHECK THE AP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
	27.6 7.67 63.777		
3	SEC USE ONLY		
4	CITIZENSHID O	R PLACE OF ORGANIZATION	
4	CITIZENSIII O	A LACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH		0.404.400.40	
REPORTING		2,491,422 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		2,491,422 (1)	
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,491,422 (		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CI	ASS REPRESENTED BY AMOUNT IN ROW (9)	<del>.</del>
11	I LIKELINI OF CI	ALOU TEL TELOETT IN TOTA (3)	
	2.9% (1)		
12	TYPE OF REPOR	RTING PERSON	
	PN		

1	NAME OF REPOR	TING PERSON	
	Biotechnolog	gy Value Fund II, L.P.	
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY EACH	6	SHARED VOTING POWER	
REPORTING		1,940,469 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		1,940,469 (1)	
9		OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,940,469 (1)		
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11		ASS REPRESENTED BY AMOUNT IN ROW (9)	
10	2.2% (1)	FINC DEDCON	
12	TYPE OF REPORT	LING PERSON	
	PN		

(1) Includes 646,823 Shares currently issuable upon the exercise of certain warrants.

	,		
1	NAME OF REPO	RTING PERSON	
	Biotechnolo	gy Value Trading Fund OS LP	
2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
_			(b) □
			(4) —
3	SEC USE ONLY		
3	SEC OSE OIVET		
4	CITIZENSHID OF	R PLACE OF ORGANIZATION	
4	CITIZENSIIII OI	TEACE OF ORGANIZATION	
	Cayman Isla	ands	
NUMBER OF	5	SOLE VOTING POWER	
SHARES	3	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
	б	SHARED VOTING POWER	
EACH REPORTING		220, 400, (1)	
PERSON WITH	-	339,468 (1) SOLE DISPOSITIVE POWER	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0.1	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		200 400 (4)	
		339,468 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	222 462 (4)		
	339,468 (1)		
10	CHECK BOX IF T	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	_		
	Less than 19		
12	TYPE OF REPOR	TING PERSON	
	PN		
(4) T 1 1 440 450 01	.1 1 1		

(1) Includes 113,156 Shares currently issuable upon the exercise of certain warrants.

1	NAME OF REPO	RTING PERSON	
	BVF Partner	rs OS Ltd.	
2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENCIUD OF	R PLACE OF ORGANIZATION	
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	Cayman Isla	ands	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		339,468 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		SHARED DISTOSITIVE TOWER	
		339,468 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	339,468 (1)		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DED CENT OF CL	ACC DEDDECENTED DV AMOUNT IN DOM (0)	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	Less than 19	%(1)	
12	TYPE OF REPOR		
	CO		

(1) Includes 113,156 Shares currently issuable upon the exercise of certain warrants.

1	NAME OF REPO	RTING PERSON	
	BVF Partne	rs L.P.	
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		4,926,108 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		4,926,108 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	4,926,108 (1		
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	-
	5.6% (1)		
12	TYPE OF REPOR	TING PERSON	
	PN, IA		
) I I I 4 C40 000		able upon the exercise of certain warrants.	

6

	<del></del>		
1	NAME OF REPORTING PERSON		
	BVF Inc.		
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		4,926,108 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		4,926,108 (1)	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	4,926,108 (1)		
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
		• • • • • • • • • • • • • • • • • • • •	
	5.6% (1)		
12	TYPE OF REPORT	TING PERSON	
	CO		
	+		

(1) Includes 1,642,036 Shares currently issuable upon the exercise of certain warrants.

1	NAME OF REPORT	TING PERSON	
	Mark N. Lamp	pert	
2		OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION	
	United States		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		4,926,108 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		4,926,108 (1)	
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	4,926,108 (1)		
10	CHECK BOX IF TH	IE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
	5.6% (1)		
12	TYPE OF REPORTI	ING PERSON	
	IN		
(1) Includes 1,642,036		le upon the exercise of certain warrants.	

8

Item 1(a). Name of Issuer:

Selecta Biosciences, Inc., a Delaware corporation (the "Issuer").

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

480 Arsenal Way

Watertown, Massachusetts 02472

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")

44 Montgomery St., 40th Floor San Francisco, California 94104

Citizenship: Delaware

Biotechnology Value Fund II, L.P. ("BVF2")

44 Montgomery St., 40th Floor San Francisco, California 94104

Citizenship: Delaware

Biotechnology Value Trading Fund OS LP ("Trading Fund OS")

PO Box 309 Ugland House Grand Cayman, KY1-1104

Cayman Islands

Citizenship: Cayman Islands

BVF Partners OS Ltd. ("Partners OS")

PO Box 309 Ugland House Grand Cayman, KY1-1104

Cayman Islands

Citizenship: Cayman Islands

BVF Partners L.P. ("Partners") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

1

BVF Inc.

44 Montgomery St., 40th Floor San Francisco, California 94104

Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 44 Montgomery St., 40th Floor San Francisco, California 94104 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, \$0.0001 par value per share (the "Shares")

Item 2(e). CUSIP Number:

816212104

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 January 6, 2020, the Reporting Persons held 1,642,036 Warrants exercisable for an aggregate of 1,642,036 Shares (the "Warrants"). The Warrants are subject to an exercise limitation, and may not be exercised if, after such exercise, the Reporting Persons would beneficially own in the aggregate, as determined in accordance with Section 13(d) of the Securities Exchange Act of 1934, more than 9.999% of the number of Shares then issued and outstanding. Such Warrants have an initial exercise price of \$1.46 per share, subject to adjustment pursuant to the terms of the Warrants, and expire on December 23, 2024. As of the close of business on January 6, 2020, the Warrant exercise limitation described above does not limit the exercise of the Warrants by the Reporting Persons.

As of the close of business on January 6, 2020, (i) BVF beneficially owned 2,491,422 Shares, including 830,474 Shares issuable upon the exercise of Warrants, (ii) BVF2 beneficially owned 1,940,469 Shares, including 646,823 Shares issuable upon the exercise of Warrants and (iii) Trading Fund OS beneficially owned 339,468 Shares, including 113,156 Shares issuable upon the exercise of Warrants.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 339,468 Shares beneficially owned by Trading Fund OS.

Partners, as the general partner of BVF, BVF2, the investment manager of Trading Fund OS, and the sole member of Partners OS, may be deemed to beneficially own the 4,926,108 Shares beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and a certain Partners managed account (the "Partners Managed Account"), including 154,749 Shares, which includes 51,583 Shares issuable upon the exercise of Warrants, held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 4,926,108 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 4,926,108 Shares 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 securities owned by another Reporting Person. Partners OS disclaims beneficial ownership of the securities beneficially owned by Trading Fund OS. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the securities beneficially owned by BVF, BVF2, Trading Fund OS, and the Partners Managed Account, 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 a denominator that is the sum of: (i) 86,325,547 Shares outstanding as of December 23, 2019, as provided by the Issuer and (ii) certain or all of the 1,642,036 Shares underlying the Warrants, as applicable.

As of the close of business on January 6, 2020, (i) BVF beneficially owned approximately 2.9% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 2.2% of the outstanding Shares, (iii) Trading Fund OS beneficially owned less than 1% of the outstanding Shares, (iv) Partners OS may be deemed to beneficially own less than 1% of the outstanding Shares, and (v) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 5.6% of the outstanding Shares (less than 1% of the outstanding Shares are held in the Partners Managed Account).

- (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.

Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by BVF, BVF2, Trading Fund OS, and the Partners Managed Account.

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: January 6, 2020

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

BVF INC.

By: /s/ Mark N. Lampert

Mark N. Lampert

President

/s/ Mark N. Lampert

MARK N. LAMPERT

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 PARTNERS L.P.

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF PARTNERS OS LTD.

By: BVF Partners L.P., its sole member

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BIOTECHNOLOGY VALUE TRADING FUND OS LP

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

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

## **Joint Filing Agreement**

The undersigned hereby agree that the Statement on Schedule 13G dated January 6, 2020 with respect to the shares of Common Stock of Selecta Biosciences, 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: January 6, 2020

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

BVF INC.

By: /s/ Mark N. Lampert

Mark N. Lampert

President

/s/ Mark N. Lampert

MARK N. LAMPERT

#### 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 PARTNERS L.P.

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

# BVF PARTNERS OS LTD.

By: BVF Partners L.P., its sole member

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

# BIOTECHNOLOGY VALUE TRADING FUND OS LP

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

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President