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. $)^1$

GlycoMimetics, Inc. (Name of Issuer)

Common Stock, \$0.001 par value (Title of Class of Securities)

38000Q102

(CUSIP Number)

August 5, 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 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 *Notes*).

¹ 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.

NAME OF REPORTING PERSON			
Biotechnology Value Fund, L.P.			
CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)			
		(b) 🗆	
SEC USE ONLY			
CITIZENSHIP OR	LAGE OF ORGANIZATION		
Delaware			
5	SOLE VOTING POWER		
	0 shares		
6	SHARED VOTING POWER		
	2,193,128		
7	SOLE DISPOSITIVE POWER		
8	SHARED DISPOSITIVE POWER		
	2 103 128		
ACCRECATE AM	,, -		
AGOREOALE AM	OUT DEALE IGNEET OWNED DI EAGH ALL OKTING LEAGON		
2,193,128			
	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)		
TYPE OF REPORT	'ING PERSON		
DN			
PN PN			
	Biotechnolog CHECK THE APPH SEC USE ONLY CITIZENSHIP OR Delaware 5 6 7 8 AGGREGATE AM 2,193,128 CHECK BOX IF TI PERCENT OF CLA 5.1%	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION Delaware 5 SOLE VOTING POWER 0 shares 6 SHARED VOTING POWER 2,193,128 7 SOLE DISPOSITIVE POWER 0 shares 8 SHARED DISPOSITIVE POWER 2,193,128 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,193,128 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.1% TYPE OF REPORTING PERSON	

1		DTINC DEDSON	
1	NAME OF REPORTING PERSON		
	Biotechnolo	pgy Value Fund II, L.P.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP		
			(a) ⊠ (b) □
3	SEC USE ONLY		
4	CITIZENSHIP O	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH	_		
REPORTING		1,783,552	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		1,783,552	
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,783,552		
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CI	LASS REPRESENTED BY AMOUNT IN ROW (9)	
	4.1%		
12	TYPE OF REPOR	RTING PERSON	
·	PN		

IT	1			
1	NAME OF REPORTING PERSON			
	Biotechnology Value Trading Fund OS LP			
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
			(b) 🗆	
3	SEC USE ONLY			
4	CITIZENSHIP OR F	PLACE OF ORGANIZATION		
		,		
	Cayman Island			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH REPORTING		318,185		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
PERSON WITH	/	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
	0	SHARED DIST OSTITVE TOWER		
		318.185		
9	AGGREGATE AMO	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
5				
	318,185			
10		IE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
	Less than 1%			
12	TYPE OF REPORTI	ING PERSON		
	PN			
	,			

1	NAME OF REPORTING PERSON			
	BVF Partners OS Ltd.			
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
			(b) 🗆	
3	SEC USE ONLY			
4	CITIZENCUUD OD I	PLACE OF ORGANIZATION		
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION		
	Cayman Islan	ds		
NUMBER OF	5	SOLE VOTING POWER		
SHARES	0			
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		318,185		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		318,185		
9		JUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
3		JOINT DENERGIALET OWNED DI EAGH REFORTING FERJON		
	318,185			
10	,	IE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
-				
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
	Less than 1%			
12	TYPE OF REPORT	ING PERSON		
	60			
	CO			

1	NAME OF REPORTING PERSON			
	BVF Partners L.P.			
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
			(b) 🗆	
3	SEC USE ONLY			
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH REPORTING		4 400 001		
PERSON WITH		4,436,801		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
	0	SHARED DISPOSITIVE FOWER		
		4,436,801		
9	AGGREGATE AMO	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
5				
	4,436,801			
10		IE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
			—	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	· · · · · · · · · · · · · · · · · · ·	
	10.3%			
12	TYPE OF REPORT	ING PERSON		
	PN, IA			
	,			

1	NAME OF REPORTING PERSON			
	BVF Inc.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) \square			
			(b) 🗆	
3	SEC USE ONLY			
3	SEC USE UNLY			
4	CITIZENSHIP OR	PLACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH		4 400 001		
REPORTING PERSON WITH	7	4,436,801		
PERSON WITH	/	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
	C C			
		4,436,801		
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	4,436,801			
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	DEDCENT OF CLA			
	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	10.3%			
12	TYPE OF REPORT	ING PERSON		
	СО			
<u> </u>	<u>!</u>			

1	NAME OF REPORTING PERSON			
	Mark N. Lampert			
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
			(b) 🗆	
3	SEC USE ONLY			
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION		
	II.'. l Curre			
	United States	COLE MOTING DOMER		
NUMBER OF SHARES	5	SOLE VOTING POWER		
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH	0	SHARED VOTING POWER		
REPORTING		4,436,801		
PERSON WITH	7	SOLE DISPOSITIVE POWER	<u>.</u>	
	1			
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		4,436,801		
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	4,436,801			
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)		
	10			
42	10.3%			
12	TYPE OF REPORT	ING PERSON		
	IN			
	IN			

Item 1(a).	Name of Issuer:
	GlycoMimetics, Inc., a Delaware corporation (the "Issuer").
Item 1(b).	Address of Issuer's Principal Executive Offices:
	9708 Medical Center Drive Rockville, Maryland 20850
Item 2(a). Item 2(b). Item 2(c).	Name of Person Filing Address of Principal Business Office or, if None, Residence 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
	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:						
	Com	Common Stock, \$0.001 par value (the "Shares").					
Item 2(e).	CUS	CUSIP Number:					
		0Q102					
Itom 2		-	ment is Filed Dyrayout to Dyle 12d 1(b) or 12d 2(b) or (c) Check Whather the Darson Filing is at				
Item 3.	11 11		ment is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:				
	/x/ Not applicable.		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.	Own	Ownership					
(a)	Amount beneficially owned:						
	As of the close of business on August 14, 2019 (i) BVF beneficially owned 2,193,128 Shares, (ii) BVF2 beneficially owned 1,783,552 Shares, and (iii) Trading Fund OS beneficially owned 318,185 Shares.						
	Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 318,185 Shares beneficially owned by						

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 318,185 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 4,436,801 Shares beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and a certain Partners managed account (the "Partners Managed Account"), including 141,936 Shares held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 4,436,801 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 4,436,801 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 Shares owned by another Reporting Person. Partners OS disclaims beneficial ownership of the Shares beneficially owned by Trading Fund OS. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the Shares 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 43,193,190 Shares outstanding as of July 30, 2019, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on August 1, 2019.

As of the close of business on August 14, 2019 (i) BVF beneficially owned approximately 5.1% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 4.1% 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 10.3% of the outstanding Shares (less than 1% of the outstanding Shares is 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.

Ownership of More than Five Percent on Behalf of Another Person. Item 6. 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. Identification and Classification of the Subsidiary That Acquired the Security Being Reported on by the Parent Holding Company or Item 7. 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: August 15, 2019

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 August 15, 2019 with respect to the shares of Common Stock of GlycoMimetics, 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: August 15, 2019

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