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)1 GlycoMimetics, Inc. (Name of Issuer) Common Stock, \$0.001 par value (Title of Class of Securities) 38000Q102 (CUSIP Number) December 31, 2016 (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) X Rule 13d-1(c) 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).

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 APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (a)					
	(b) 					
3	SEC USE ONLY					
4	CITIZENSHIP OR PLACE OF ORGANIZATION					
	D 1					
	Delaware	COVER VIOLENCE DOWNER				
NUMBER OF	5	SOLE VOTING POWER				
SHARES						
BENEFICIALLY		0 shares				
OWNED BY EACH REPORTING PERSON	6	6 SHARED VOTING POWER				
WITH		1 220 770				
WIII	1,238,770					
	/	7 SOLE DISPOSITIVE POWER				
	0 shares					
1	8 SHARED DISPOSITIVE POWER					
	o	SHARED DISPOSITIVE FOWER				
		1.238,770				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	1,238,770					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
	· /					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	5.4%					
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		(0) [
4	CITIZENSHIP OR PLACE OF ORGANIZATION						
	Delaware						
NUMBER OF	5	SOLE VOTING POWER					
SHARES BENEFICIALLY		0 shares					
OWNED BY EACH	6						
REPORTING PERSON							
WITH	817,019 7 SOLE DISPOSITIVE POWER						
	/	SOLE DISPOSITIVE POWER					
	0 shares						
	8	SHARED DISPOSITIVE POWER					
		817,019					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON						
	817,019						
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES						
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
	3.5%						
12	TYPE OF REPORTING PERSON						
	_ = =========						
	PN						

1	NAME OF REPORTING PERSON					
	Biotechnology Value Trading Fund OS LP					
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) □					
3	SEC USE ONLY					
4	CITIZENSHIP OR PLACE OF ORGANIZATION					
	Cayman Islands					
NUMBER OF SHARES	5	SOLE VOTING POWER				
BENEFICIALLY		0 shares				
OWNED BY EACH REPORTING PERSON	6 SHARED VOTING POWER					
WITH		249,533				
	7 SOLE DISPOSITIVE POWER					
	0 shares					
	8	SHARED DISPOSITIVE POWER				
		249,533				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	249,533					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	1.1%					
12	TYPE OF REPORTIN	G PERSON				
	PN					

1	NAME OF REPORTING PERSON						
	BVF Partners OS Ltd.						
2	CHECK THE APPROI	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) □					
3	SEC USE ONLY						
4	CITIZENSHIP OR PLACE OF ORGANIZATION						
	Cayman Islands						
NUMBER OF SHARES	5 SOLE VOTING POWER						
BENEFICIALLY		0 shares					
OWNED BY EACH REPORTING PERSON	6 SHARED VOTING POWER						
WITH		249,533					
	7 SOLE DISPOSITIVE POWER						
	0 shares						
	8	SHARED DISPOSITIVE POWER					
		249,533					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON						
	249,533						
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □						
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
	1.1%						
12	TYPE OF REPORTING	G PERSON					
	СО						

1	NAME OF REPORTING PERSON						
	BVF Partners L.P.						
2	CHECK THE APPRO	CHECK THE APPROPRIATE 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 REPORTING PERSON	6	6 SHARED VOTING POWER					
WITH		2,826,282					
	7	7 SOLE DISPOSITIVE POWER					
	0 shares						
	8	SHARED DISPOSITIVE POWER					
		2,826,282					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON						
	2,826,282						
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □						
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
	12.3%						
12	TYPE OF REPORTIN	G PERSON					
	PN, IA						

1	NAME OF REPORTING PERSON					
	BVF Inc.					
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (a)					
			(b) 🗆			
3	SEC USE ONLY					
4	CITIZENSHIP OR PL	ACE OF ORGANIZATION				
	Delaware	T				
NUMBER OF	5	SOLE VOTING POWER				
SHARES BENEFICIALLY		0 shares				
OWNED BY EACH	6	SHARED VOTING POWER				
REPORTING PERSON		SIL MED TO THE TO THE MEDIT OF THE PROPERTY OF				
WITH	2,826,282					
	7 SOLE DISPOSITIVE POWER					
	8	0 shares SHARED DISPOSITIVE POWER				
	0	SHARED DISPOSITIVE FOWER				
		2,826,282				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	2,826,282					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
10	CHECK DOA IF THE AGGREGATE AMOUNT IN NOW (5) EXCLUDES CERTAIN SHARES					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	12.20/					
12	12.3% TYPE OF REPORTING PERSON					
12	TYPE OF KEPOKTIN	UPERSON				
	CO					

1	NAME OF REPORTING PERSON						
	Mark N. Lampert						
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) \boxtimes						
		(b) □					
3	SEC USE ONLY						
4	CITIZENSHIP OR PL	ACE OF ORGANIZATION					
	United States						
NUMBER OF	5	SOLE VOTING POWER					
SHARES							
BENEFICIALLY		0 shares					
OWNED BY EACH	6	SHARED VOTING POWER					
REPORTING PERSON							
WITH		2.826,282					
1	7 SOLE DISPOSITIVE POWER						
	·						
	0 shares						
1	8	SHARED DISPOSITIVE POWER					
	-						
		2.826.282					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON						
	2,826,282						
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES						
	CHECK BOX II THE ROCKEGITE THROUT IN NOW (7) EXCELUDES CERTAIN SHARES						
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
	TERCENT OF CERIO	ALLIED BITALOGIA AND (1)					
	12.3%						
12	TYPE OF REPORTING PERSON						
12	TIL OF REFORTIN	O I ENDO!					
	IN						
	11.1						

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). 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") 1 Sansome Street, 30th Floor San Francisco, California 94104

Citizenship: Delaware

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

1 Sansome Street, 30th 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") 1 Sansome Street, 30th Floor San Francisco, California 94104 Citizenship: Delaware

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BVF Inc.

1 Sansome Street, 30th Floor San Francisco, California 94104

Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 1 Sansome Street, 30th 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, \$0.001 par value (the "Common Stock")

Item 2(e). CUSIP Number:

38000Q102

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, 2016 (i) BVF beneficially owned 1,238,770 shares of Common Stock, (ii) BVF2 beneficially owned 817,019 shares of Common Stock, and (iii) Trading Fund OS beneficially owned 249,533 shares of Common Stock.

Partners OS as the general partner of Trading Fund OS may be deemed to beneficially own the 249,533 shares of Common Stock 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 2,826,282 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and certain Partners Managed accounts (the "Partners Managed Accounts"), including 520,960 shares of Common Stock held in the Partners Managed Accounts.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 2,826,282 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 2,826,282 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. Partners OS disclaims beneficial ownership of the shares of Common Stock beneficially owned by Trading Fund OS. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF, BVF2, Trading Fund OS, and the Partners Managed Accounts, 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 23,065,131 shares of Common Stock outstanding as disclosed in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 4, 2016.

As of the close of business on December 31, 2016 (i) BVF beneficially owned approximately 5.4% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 3.5% of the outstanding shares of Common Stock, (iii) Trading Fund OS beneficially owned approximately 1.1% of the outstanding shares of Common Stock (iv) Partners OS may be deemed to beneficially own approximately 1.1% of the outstanding shares of Common Stock, and (v) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 12.3% of the outstanding shares of Common Stock (approximately 2.3% of which is held in the Partners Managed Accounts).

- (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 of Common Stock beneficially owned by BVF, BVF2, Trading Fund OS, and the Partners Managed Accounts.

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 Securities and Exchange Commission on June 27, 2016.

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, 2017

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 PARTNERS L.P.

By: BVF Inc., its general partner

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

President

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

BVF INC.

By: /s/ Mark N. Lampert

Mark N. Lampert

President

/s/ Mark N. Lampert

MARK N. LAMPERT