GLYCOMIMETICS INC Form SC 13G June 27, 2016

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)

June 17, 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:

- 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).

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 the disclosures provided in a prior cover page.

NAME OF REPORTING PERSON

CUSIP NO. 38000Q102

2 3 4	Biotechnology Value Fund, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION			(a) x (b) o
NUMBER OF SHARES	Delaware	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH	•	6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	1,053,678 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	R
9	AGGREGATE	AMOUNT BEN	1,053,678 EFICIALLY OWNED BY EACH	REPORTING PERSON
10	1,053,678 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	4.7% TYPE OF REP	ORTING PERSO	DN	
	PN			
2				

NAME OF REPORTING PERSON

CUSIP NO. 38000Q102

2	Biotechnology Value Fund II, L CHECK THE APPROPRIATE GROUP SEC USE ONLY	(a) x (b) o	
4	CITIZENSHIP OR PLACE OF	ORGANIZATION	
NUMBER OF SHARES	Delaware 5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH	6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH	7	691,422 SOLE DISPOSITIVE POWER	
	8	0 shares SHARED DISPOSITIVE POWE	CR.
9	AGGREGATE AMOUNT BEN	691,422 NEFICIALLY OWNED BY EACH	REPORTING PERSON
10	691,422 CHECK BOX IF THE AGGRE EXCLUDES CERTAIN SHAR	· ·	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
12	3.1% TYPE OF REPORTING PERSON		
	PN		
3			

NAME OF REPORTING PERSON

CUSIP NO. 38000Q102

2 3	Biotechnology Value Trading Fund OS LP CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP SEC USE ONLY		(a) x (b) o	
4	CITIZENSHIP	OR PLACE OF O	ORGANIZATION	
	Cayman Island			
NUMBER OF SHARES		5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY	-	6	0 shares SHARED VOTING POWER	
EACH		U		
REPORTING PERSON WITH		7	206,336 SOLE DISPOSITIVE POWER	
FERSON WITH		,	SOLE DISPOSITIVE FOWER	
		8	0 shares SHARED DISPOSITIVE POWE	TD.
		0	SHAKED DISPOSITIVE POWE	K
9	AGGREGATE	AMOUNT BEN	206,336 EFICIALLY OWNED BY EACH	REPORTING PERSON
10		IF THE AGGREC ERTAIN SHARE	JATE AMOUNT IN KOW (9)	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	Less than 1% TYPE OF REP	ORTING PERSC)N	
	PN			
4				

CUSIP NO. 38000Q102

1	NAME OF REPORTING PERSON			
2	BVF Partners OS Ltd. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
NUMBER OF SHARES	Cayman Islands 5	SOLE VOTING POWER		
BENEFICIALLY OWNED BY EACH	6	0 shares SHARED VOTING POWER		
REPORTING PERSON WITH	7	206,336 SOLE DISPOSITIVE POWER		
	8	0 shares SHARED DISPOSITIVE POWE	R	
9	AGGREGATE AMOUNT BEN	206,336 IEFICIALLY OWNED BY EACH	REPORTING PERSON	
10	206,336 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	Less than 1% TYPE OF REPORTING PERSON			
	CO			
5				

NAME OF REPORTING PERSON

CUSIP NO. 38000Q102

2 3 4	BVF Partners L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION			(a) x (b) o
NUMBER OF SHARES	Delaware	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH		6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	2,447,415 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	ER
9	AGGREGATE	AMOUNT BEN	2,447,415 EFICIALLY OWNED BY EACH	REPORTING PERSON
10		IF THE AGGREGERATION SHARE	GATE AMOUNT IN ROW (9) ES	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	10.8% TYPE OF REP	ORTING PERSO	ON	
	PN, IA			
6				

NAME OF REPORTING PERSON

CUSIP NO. 38000Q102

2	BVF Inc. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) x (b) o			
3	SEC USE ONLY (6) 6			(8) 0
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
	Delaware			
NUMBER OF SHARES		5	SOLE VOTING POWER	
BENEFICIALLY	7		0 shares	
OWNED BY EACH		6	SHARED VOTING POWER	
REPORTING			2,447,415	
PERSON WITH		7	SOLE DISPOSITIVE POWER	
FERSON WIIII		1	SOLE DISPOSITIVE FOWER	
		0	0 shares	D.
		8	SHARED DISPOSITIVE POWE	K
			2 447 415	
9	AGGREGATE	AMOUNT BEN	2,447,415 EFICIALLY OWNED BY EACH	REPORTING PERSON
	0 447 415			
10	2,447,415	ETHE ACCRE		
10			GATE AMOUNT IN ROW (9)	
	EXCLUDES C	ERTAIN SHARI	ES	
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
	10.8%			
12	TYPE OF REP	ORTING PERSO	ON	
	CO			
7				

NAME OF REPORTING PERSON

CUSIP NO. 38000Q102

2 3 4	Mark N. Lampert CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION			(a) x (b) o
NUMBER OF	United States 5		SOLE VOTING POWER	
SHARES BENEFICIALLY OWNED BY EACH	6		0 shares SHARED VOTING POWER	
REPORTING PERSON WITH	7		2,447,415 SOLE DISPOSITIVE POWER	
	8		0 shares SHARED DISPOSITIVE POWE	R
9	AGGREGATE A		2,447,415 EFICIALLY OWNED BY EACH	REPORTING PERSON
10	2,447,415 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	10.8% TYPE OF REPORTING PERSON			
	IN			
8				

CUSIP NO. 38000Q102

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

Citizenship: Delaware

BVF Inc.

1 Sansome Street, 30th Floor

San Francisco, California 94104

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."

CUSIP NO. 38000Q102

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: