FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

washington, D.C. 205

	OMB APF	PROVAL
	OMB Number:	3235-0287
	Estimated average	burden
- 1	l 6	

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

	tion 1(b).	unide. See		Filed	pursua or Se	nt t	to Section on 30(h) o	n 16(a) of the li	of the S nvestme	Securit ent Co	ties Exchange mpany Act of	e Act of f 1940	of 193	4		nours	per re	esponse:	0.5	Ц
1. Name and Address of Reporting Person* BVF PARTNERS L P/IL					2. Issuer Name and Ticker or Trading Symbol Repare Therapeutics Inc. [RPTX]								k all app Direc			X 10% O				
	Last) (First) (Middle) 14 MONTGOMERY STREET 10TH FLOOR					3. Date of Earliest Transaction (Month/Day/Year) 06/13/2022								below			below)			
(Street) SAN FRANCISCO CA 94104					i. If Amendment, Date of Original Filed (Month/Day/Year)						6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person X Form filed by More than One Reporting Person									
(City)	(\$		Zip)											<u> </u>						_
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transac Date (Month/Da			ion 2A. Deeme Execution		d Date,	3. Transaction Code (Instr. 8)		4. Securities	s Acquired (A) of (D) (Instr. 3, 4		A) or	5. Amo Securit Benefic	unt of ties cially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)				
									Code	v	Amount	(A) (D)	or P	Price	Transa	ction(s) 3 and 4)			(
Common Shares, no par value ⁽¹⁾			06/13/2	2022						74,666	A		\$12.73	.73 4,443,423		D ⁽²⁾			_	
Common Shares, no par value ⁽¹⁾ 06/13/			06/13/2			P		68,327	A	-	\$12.73			D ⁽³⁾			4			
Common	Shares, no	par value ⁽¹⁾		06/13/2				P		6,168	A		\$12.73				D ⁽⁴⁾			
		Tai	ble II -								osed of, convertible				Owne	d				
Derivative Conversion Date Ex Security or Exercise (Month/Day/Year) if a		if any	emed ion Date, /Day/Year)	4. Transaction Code (Instr. 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)		De Se (In	Price of rivative curity str. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ownersh Form: Direct (D) or Indirec (I) (Instr.	Ownership	Beneficia Ownersh (Instr. 4)	ct al nip	
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amo or Num of Shar	ber						
		of Reporting Person*																		
(Last) 44 MON 40TH FI		(First)	(Mi	ddle)																
(Street) SAN FRANCE	ISCO	CA	94	104																
(City)		(State)	(Ziţ	o)																
1. Name ar	nd Address o	of Reporting Person*																		

BIOTECHNOLOGY VALUE FUND L P (Middle) (First) 44 MONTGOMERY STREET **40TH FLOOR** (Street) **SAN** CA 94104 FRANCISCO (City) (State) (Zip) 1. Name and Address of Reporting Person*

(Last)	(First)	(Middle)
	ERY ST., 40TH FI	
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(Street)		
SAN FRANCISCO	CA	94104
(City)	(State)	(Zip)
Name and Addres	s of Reporting Person	n*
	· -	 <u>JE FUND II LP</u>
(Last)	(First)	(Middle)
44 MONTGOMI	ERY STREET	
40TH FLOOR		
(Street)		
SAN	CA	94104
FRANCISCO	U.1.) IIV I
(City)	(State)	(Zip)
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(Last)	(First)	(Middle)
	ERY ST., 40TH FI	
(Street)		
SAN FRANCISCO	CA	94104
TRANCISCO		
(City)	(State)	(Zip)
1. Name and Addres	s of Reporting Person	n [*]
1. Name and Addres	s of Reporting Person	n [*]
1. Name and Address Biotechnolog (Last)	s of Reporting Person <u>y Value Tradin</u>	g Fund OS LP
1. Name and Addres Biotechnolog (Last) P.O. BOX 309 U	is of Reporting Person Y Value Tradin (First)	g Fund OS LP
1. Name and Address Biotechnolog (Last)	is of Reporting Person y Value Tradin (First) GLAND HOUSE	g Fund OS LP (Middle)
1. Name and Addres Biotechnolog (Last) P.O. BOX 309 U	is of Reporting Person Y Value Tradin (First)	g Fund OS LP
1. Name and Addres Biotechnolog (Last) P.O. BOX 309 U (Street) GRAND CAYMAN	is of Reporting Person y Value Tradin (First) GLAND HOUSE	(Middle) KY1-1104
1. Name and Addres Biotechnolog (Last) P.O. BOX 309 U (Street) GRAND	is of Reporting Person y Value Tradin (First) GLAND HOUSE	g Fund OS LP (Middle)
1. Name and Addres Biotechnolog (Last) P.O. BOX 309 U (Street) GRAND CAYMAN (City) 1. Name and Addres	is of Reporting Person y Value Tradin (First) GLAND HOUSE E9 (State)	(Middle) KY1-1104 (Zip)
1. Name and Addres Biotechnolog (Last) P.O. BOX 309 U (Street) GRAND CAYMAN (City)	is of Reporting Person y Value Tradin (First) GLAND HOUSE E9 (State)	(Middle) KY1-1104 (Zip)
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1. Name and Addres Biotechnolog (Last) P.O. BOX 309 U Street) GRAND CAYMAN (City) 1. Name and Addres BVF Partners (Last) P.O. BOX 309 U Street) GRAND CAYMAN (City) 1. Name and Addres BVF GP HOI (Last)	is of Reporting Person y Value Tradin (First) GLAND HOUSE E9 (State) is of Reporting Person OS Ltd. (First) GLAND HOUSE E9 (State) is of Reporting Person DINGS LLC	(Middle) KY1-1104 (Zip) (Middle) KY1-1104 (Zip) (Middle)
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(City)	(State)	(Zip)							
1. Name and Address of Reporting Person* BVF INC/IL									
(Last)	(First)	(Middle)							
44 MONTGOMERY STREET									
40TH FLOOR									
(Street) SAN FRANCISCO	CA	94104							
FRANCISCO									
(City)	(State)	(Zip)							
1. Name and Address LAMPERT MA									
(Last)	(First)	(Middle)							
44 MONTGOME	RY STREET								
40TH FLOOR									
(Street) SAN FRANCISCO	CA	94104							
(City)	(State)	(Zip)							

Explanation of Responses

- 1. This Form 4 is filed jointly by Biotechnology Value Fund, L.P. ("BVF"), Biotechnology Value Fund II, L.P. ("BVF2"), Biotechnology Value Trading Fund OS LP ("Trading Fund OS"), BVF Partners OS Ltd. ("Partners OS"), BVF I GP LLC ("BVF GP"), BVF II GP LLC ("BVF2 GP"), BVF GP Holdings LLC ("BVF GPH"), BVF Partners L.P. ("Partners"), BVF Inc. and Mark N. Lampert (collectively, the "Reporting Persons"). Each of the Reporting Persons is a member of a Section 13(d) group that collectively beneficially owns over 10% of the Issuer's outstanding Common Shares. Each of the Reporting Persons disclaims beneficial ownership of the securities reported herein except to the extent of his or its pecuniary interest therein.
- 2. Securities owned directly by BVF. As the general partner of BVF, BVF GP may be deemed to beneficially own the securities owned directly by BVF. As the sole member of BVF GP, BVF GPH may be deemed to beneficially the own securities owned directly by BVF. As the investment manager of BVF, Partners may be deemed to beneficially own the securities owned directly by BVF. As the investment adviser and general partner of Partners, BVF Inc., may be deemed to beneficially own the securities owned directly by BVF. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the securities owned directly by BVF.
- 3. Securities owned directly by BVF2. As the general partner of BVF2, BVF2 GP may be deemed to beneficially own the securities owned directly by BVF2. As the sole member of BVF2 GP, BVF GPH may be deemed to beneficially own the securities owned directly by BVF2. As the investment manager of BVF2, Partners may be deemed to beneficially own the securities owned directly by BVF2. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the securities owned directly by BVF2. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the securities owned directly by BVF2.
- 4. Securities owned directly by Trading Fund OS. As the general partner of Trading Fund OS, Partners OS may be deemed to beneficially own the securities owned directly by Trading Fund OS. As the investment manager of Trading Fund OS and the sole member of Partners OS, Partners may be deemed to beneficially own the securities owned directly by Trading Fund OS. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the securities owned directly by Trading Fund OS. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the securities owned directly by Trading Fund OS.

BVF Partners L.P., By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	06/15/2022
Biotechnology Value Fund, L.P., By: BVF Partners L.P., its investment manager, By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	06/15/2022
BVF I GP LLC, By: BVF GP Holdings LLC, its sole member, By: /s/ Mark N. Lampert, Chief Executive Officer	06/15/2022
Biotechnology Value Fund II, L.P., By: BVF Partners L.P., its investment manager, By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	06/15/2022
BVF II GP LLC, By: BVF GP Holdings LLC, its sole member, By: /s/ Mark N. Lampert, Chief Executive Officer	06/15/2022
BVF Partners OS Ltd., By: BVF Partners L.P., its sole member, By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	06/15/2022
Biotechnology Value Trading Fund OS LP, By; BVF Partners L.P., its investment	06/15/2022

manager, BVF Inc., its general partner, By: /s/ Mark N.
Lampert, President

BVF GP Holdings LLC, By:

/s/ Mark N. Lampert, Chief 06/15/2022

Executive Officer

BVF Inc., By: /s/ Mark N. <u>Lampert, President</u>

06/15/2022

/s/ Mark N. Lampert 06/15/2022

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- * If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.