SEC Form 3 FORM 3

## UNITED STATES SECURITIES AND EXCHANGE

COMMISSION Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0104

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Estimated average burden hours per 0.5 response:

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

	UI Sectio	01 30(11) 01	the Investment Company Act	01 1940			
1. Name and Address of Reporting Person <sup>*</sup> BVF PARTNERS L P/IL	2. Date of E Requiring Si (Month/Day/ 10/28/202	tatement 'Year)	3. Issuer Name <b>and</b> Ticker of <u>Repare Therapeutic</u>				
(Last) (First) (Middle) 44 MONTGOMERY STREET 40TH FL			4. Relationship of Reporting Issuer (Check all applicable) Director X Officer (give	( 10% C	wner	5. If Amendment, Filed (Month/Day 6. Individual or Jc (Check Applicabl	/Year) pint/Group Filing
(Street) SAN FRANCISCO CA 94104	,		title below)	below)		Form filed Person	by One Reporting by More than One
(City) (State) (Zip)							
Та	ble I - Non	Derivat	ive Securities Benefic	ially O	wned		
1. Title of Security (Instr. 4)			2. Amount of Securities Beneficially Owned (Instr. 4)	3. Owne Form: D (D) or In (I) (Inst	Direct O ndirect	. Nature of Indire wnership (Instr.	
Common Stock <sup>(1)</sup>			2,548,764	D	(2)		
Common Stock <sup>(1)</sup>			1,903,361	D	(3)		
Common Stock <sup>(1)</sup>			299,728	D	(4)		
	Table II - Derivative Securities Beneficially Owned(e.g., puts, calls, warrants, options, convertible securities)						
1. Title of Derivative Security (Instr. 4) Expiration Date (Month/Day/Year)		te	Underlying Derivative Security (Instr. 4) Conversion or Exercise		Conversion or Exercise	e   Form: Ownership (In	Indirect Beneficial Ownership (Instr.
	Date Exercisable	Expiratio Date	n Title	Amount or Number of Shares	Price of Direct (D) 5) Derivative Security (I) (Instr. 5)		5)
1. Name and Address of Reporting Person <sup>*</sup> BVF PARTNERS L P/IL		_					
(Last)(First)(Mid44 MONTGOMERY STREET40TH FL	dle)						
(Street) SAN CA 941 FRANCISCO	04	_					
(City) (State) (Zip)	1						
1. Name and Address of Reporting Person* BIOTECHNOLOGY VALUE FUND L P							
(Last) (First) (Mid 44 MONTGOMERY STREET 40TH FL	dle)						
(Street)		-					

SAN FRANCISCO	CA	94104		
(City)	(State)	(Zip)		
1. Name and Address of Reporting Person*				
(Last) 44 MONTGOM	(First) IERY ST., 40TH F	(Middle) TOOR		
(Street) SAN FRANCISCO	CA	94104		
(City)	(State)	(Zip)		
	ess of Reporting Perso OLOGY VALU			
(Last) 44 MONTGOM 40TH FL	(First) IERY STREET	(Middle)		
(Street) SAN FRANCISCO	CA	94104		
(City)	(State)	(Zip)		
1. Name and Addre BVF II GP L	ess of Reporting Perso LC	on*		
(Last) 44 MONTGOM	(First) IERY ST., 40TH F	(Middle) TOOR		
(Street) SAN FRANCISCO	CA	94104		
(City)	(State)	(Zip)		
	ess of Reporting Perso <u>gy Value Tradir</u>	<sup>on*</sup> 1 <u>g Fund OS LP</u>		
(Last) P.O. BOX 309 (	(First) JGLAND HOUSE	(Middle)		
(Street) GRAND CAYMAN	E9	KY1-1104		
(City)	(State)	(Zip)		
1. Name and Address of Reporting Person <sup>*</sup> BVF Partners OS Ltd.				
(Last) P.O. BOX 309 (	(First) JGLAND HOUSI	(Middle)		
(Street)				

GRAND CAYMAN	E9	KY1-1104
(City)	(State)	(Zip)
	ss of Reporting Perso	
(Last) 44 MONTGOM	(First) IERY ST., 40TH F	(Middle) FLOOR
(Street) SAN FRANCISCO	CA	94104
(City)	(State)	(Zip)
1. Name and Addre	ess of Reporting Pers	on*
(Last) 44 MONTGOM 40TH FL	(First) IERY STREET	(Middle)
(Street) SAN FRANCISCO	CA	94104
(City)	(State)	(Zip)
1. Name and Addre	ess of Reporting Personal MARK N	on*
(Last) 44 MONTGOM 40TH FL	(First) IERY STREET	(Middle)
(Street) SAN FRANCISCO	CA	94104
(City)	(State)	(Zip)

## **Explanation of Responses:**

1. This Form 3 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. 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 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 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 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.

<u>BVF Partners L.P., By:</u> <u>BVF Inc., its general</u> <u>partner, By: /s/ Mark N.</u> <u>Lampert, President</u>	<u>1</u>
Biotechnology Value Fund, L.P., By: BVF Partners L.P., its investment manager, By: BVF Inc., its general	<u>1</u>

11/08/2021

11/08/2021

partner, By: /s/ Mark N. Lampert, President BVF I GP LLC, By: BVF GP HOLDINGS LLC, its sole member, By: /s/ Mark N. Lampert, Chief Executive Officer	<u>11/08/2021</u>
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	<u>11/08/2021</u>
BVF II GP LLC, By: BVF GP HOLDINGS LLC, its sole member, By: /s/ Mark N. Lampert, Chief Executive Officer	<u>11/08/2021</u>
BVF Partners OS Ltd., By: BVF Partners L.P., its sole member, By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	<u>11/08/2021</u>
Biotechnology Value Trading Fund OS LP, By: BVF Partners L.P., its investment manager, BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	<u>11/08/2021</u>
<u>BVF GP Holdings LLC,</u> <u>By: /s/ Mark N. Lampert,</u> <u>Chief Executive Officer</u>	<u>11/08/2021</u>
<u>BVF Inc., By: /s/ Mark N.</u> Lampert, President	<u>11/08/2021</u>
/ <u>s/ Mark N. Lampert</u> ** Signature of Reporting Person	<u>11/08/2021</u> 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 5 (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.