UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

SCHEDULE 13D

UNDER THE SECURITIES EXCHANGE ACT OF 1934 (Amendment No. 1)*

Repare Therapeutics Inc.

(Name of Issuer)

Common Shares (Title of Class of Securities)

760273102 (CUSIP Number)

Ansbert Gadicke MPM Asset Management 450 Kendall Street Cambridge, MA 01242 Telephone: (617) 425-9200

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

March 12, 2021 (Date of Event Which Requires Filing of This Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-7 for other parties to whom copies are to be sent.

* 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.

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.	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)					
	MPM BioVentures 2014, L.P.					
2.			Appropriate Box if a Member of a Group (See Instructions)			
	(a)		(b) ⊠ (1)			
3.	SEC USE ONLY					
4.	Sourc	e of F	unds (See Instructions)			
-	WC	- :t D:	and a serial Decrease diagraps of Decreased Decreased to Thomas 2(d) on 2(a)			
5.			sclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)			
6.	Citize	enship	or Place of Organization			
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	Delaware 7. Sole Voting Power					
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	nber of		2,364,040			
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	ned by					
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	orting	9.	Sole Dispositive Power			
	erson Vith:		2,364,040			
•	viui.	10.	Shared Dispositive Power			
			0			
11.	Aggr	egate <i>I</i>	Amount Beneficially Owned by Each Reporting Person			
	2,364	040				
12.			Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)			
13.	3. Percent of Class Represented by Amount in Row (11)					
1.4	6.4%		of the Demon (Contract of the Contract of the			
14.	Type	ot Rep	oorting Person (See Instructions)			
	DN					

- (1) This schedule is filed by MPM BioVentures 2014, L.P. ("BV 2014"), MPM BioVentures 2014 (B), L.P. ("BV 2014(B)"), MPM Asset Management Investors BV2014 LLC ("AM BV2014 LLC"), UBS Oncology Impact Fund L.P. ("UBS Oncology"), MPM BioVentures 2014 GP LLC ("BV 2014 GP"), MPM BioVentures 2014 LLC ("BV 2014 LLC"), Oncology Impact Fund (Cayman) Management LP ("Oncology Cayman"), MPM Oncology Impact Management LP ("Oncology LP") and MPM Oncology Impact Management GP LLC ("Oncology GP") (collectively, the "MPM Entities") and Ansbert Gadicke, Luke Evnin and Todd Foley (collectively, the "Listed Persons" and together with the MPM Entities, the "Filing Persons"). The MPM Entities and the Listed Persons expressly disclaim status as a "group" for purposes of this Schedule 13D.
- (2) This percentage is calculated based upon 36,904,446 outstanding common shares of Repare Therapeutics, Inc. (the "Issuer"), as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 4, 2021.

1.	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)					
	MPM BioVentures 2014 (B), L.P.					
2.			Appropriate Box if a Member of a Group (See Instructions)			
	(a)		(b) ⊠ (1)			
3.	SEC	USE C	DNLY			
4.	Sourc	e of F	unds (See Instructions)			
	WC					
5.	Chec	k if Di	sclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)			
6.	Citize	enship	or Place of Organization			
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		7.	Sole Voting Power			
	nber of		157,677			
Shares Beneficially		8.	Shared Voting Power			
Owned by			0			
Rep	ach orting	9.	Sole Dispositive Power			
	erson Vith:		157,677			
,	v 1tii.	10.	Shared Dispositive Power			
			0			
11.	Aggr	egate <i>F</i>	Amount Beneficially Owned by Each Reporting Person			
	157,677					
12.			Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)			
13.	Percent of Class Represented by Amount in Row (11)					
10.	1 6106	111 UI (nuos representeu by randum in row (11)			
1.4	0.4%					
14.	Type	ot Kep	orting Person (See Instructions)			
	PN					

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- (2) This percentage is calculated based upon 36,904,446 outstanding common shares of the Issuer, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 4, 2021.

1.	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)				
			t Management Investors BV2014 LLC		
2.	Chec (a)		Appropriate Box if a Member of a Group (See Instructions) (b) ⊠ (1)		
3.	SEC	USE C	DNLY		
4.	Sourc	e of F	unds (See Instructions)		
	WC				
5.	Chec	k if Di	sclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)		
6.	Citize	enship	or Place of Organization		
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	nber of		81,372		
	nares	8.	Shared Voting Power		
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	ach	0			
	orting	9.	Sole Dispositive Power		
	erson Vith:		81,372		
•	, 1011,	10.	Shared Dispositive Power		
			0		
11.	Aggr	atene	Amount Beneficially Owned by Each Reporting Person		
11.	11551	igate 1	sinount beneficially Owned by Each Reporting Letson		
	81,37				
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)				
13.	Perce	nt of C	Class Represented by Amount in Row (11)		
	0.2%	(2)			
14.			porting Person (See Instructions)		
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- (2) This percentage is calculated based upon 36,904,446 outstanding common shares of the Issuer, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 4, 2021.

1.	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)				
	UBS Oncology Impact Fund, L.P.				
2.	Chec (a)		appropriate Box if a Member of a Group (See Instructions) (b) ⊠ (1)		
3.	SEC	USE C	DNLY		
4.	Sourc	e of F	unds (See Instructions)		
	WC				
5.			sclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)		
6.	Citize	enship	or Place of Organization		
	Delav	ware			
		7.	Sole Voting Power		
	nber of		2,069,749		
	ares ficially	8.	Shared Voting Power		
	ned by ach		0		
Rep	orting	9.	Sole Dispositive Power		
	rson ⁄ith:		2,069,749		
·		10.	Shared Dispositive Power		
			0		
11.	Aggr	egate <i>F</i>	Amount Beneficially Owned by Each Reporting Person		
	2,069,749				
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)				
13.	Percent of Class Represented by Amount in Row (11)				
	5.6%				
14.	Type	of Rep	orting Person (See Instructions)		
	PN				

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1.	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)				
	MPM BioVentures 2014 GP LLC				
2.			Appropriate Box if a Member of a Group (See Instructions)		
	(a)		(b) ⊠ (1)		
3.	SEC	USE C	ONLY		
4.	Sourc	e of F	unds (See Instructions)		
	WC				
5.		k if Di	sclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)		
6.	Citize	enship	or Place of Organization		
	Delav	vare			
		7.	Sole Voting Power		
	ber of		0		
	ares ficially	8.	Shared Voting Power		
Owi	ned by		2,521,717(2)		
	ach orting	9.	Sole Dispositive Power		
Pe	rson		0		
W	/ith:	10.	Shared Dispositive Power		
11	Λααν	ogato /	2,521,717(2) Amount Beneficially Owned by Each Reporting Person		
11.	Aggre	egate <i>E</i>	Amount Beneficially Owned by Each Reporting Person		
		,717(2			
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)				
13.	Perce	nt of C	Class Represented by Amount in Row (11)		
	6.8%	(3)			
14.			porting Person (See Instructions)		

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- (2) Includes 2,364,040 shares held by BV 2014 and 157,677 shares held by BV 2014(B). BV 2014 GP and BV 2014 LLC are the direct and indirect general partners of BV 2014 and BV 2014(B).
- (3) This percentage is calculated based upon 36,904,446 outstanding common shares of the Issuer, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 4, 2021.

1.	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)				
	MPM BioVentures 2014 LLC				
2.			Appropriate Box if a Member of a Group (See Instructions)		
	(a)		(b) ⊠ (1)		
3.	SEC	USE C	DNLY		
4.	Sourc	e of F	unds (See Instructions)		
	WC				
5.		k if Di	sclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)		
6.	Citize	enshin	or Place of Organization		
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	Delav	vare 7.	Sole Voting Power		
		7.	Sole volling Power		
	nber of nares		0		
Bene	ficially	8.	Shared Voting Power		
	ned by lach		2,603,089(2)		
Rep	orting	9.	Sole Dispositive Power		
	erson Vith:		0		
	, 1011	10.	Shared Dispositive Power		
			2,603,089(2)		
11.					
	2.603	,089(2			
12.					
10	D		Slar Barrard II. American Market Barrard II.		
13.	Perce	10 Jn	Class Represented by Amount in Row (11)		
	7.1%				
14.	Type	of Rep	porting Person (See Instructions)		
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- (3) This percentage is calculated based upon 36,904,446 outstanding common shares of the Issuer, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 4, 2021.

1.	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)					
	Oncology Impact Fund (Cayman) Management LP					
2.			Appropriate Box if a Member of a Group (See Instructions)			
	(a)		(b) ⊠ (1)			
3.	SEC	USE C	ONLY			
4.	Sourc	e of F	unds (See Instructions)			
	WC					
5.	Chec	k if Di	sclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)			
6.	Citize	enship	or Place of Organization			
	Delav	vare				
		7.	Sole Voting Power			
	nber of		2,069,749(2)			
Shares Beneficially		8.	Shared Voting Power			
Owned by Each			0			
	orting	9.	Sole Dispositive Power			
	erson Vith:		2,069,749(2)			
, v	V1U1.	10.	Shared Dispositive Power			
			0			
11.	Aggr	egate <i>F</i>	Amount Beneficially Owned by Each Reporting Person			
	2,069,749(2)					
12.			e Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)			
4.5						
13.	Perce	nt of C	Class Represented by Amount in Row (11)			
	5.6%					
14.	Type	of Rep	oorting Person (See Instructions)			
	PN					

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- (2) Consists of shares held by UBS Oncology. Oncology GP is the general partner of Oncology LP, the General Partner of Oncology (Cayman), the General Partner of UBS Oncology.
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1.	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)					
	MPM Oncology Impact Management LP					
2.			Appropriate Box if a Member of a Group (See Instructions)			
	(a)		(b) ⊠ (1)			
3.	SEC	USE C	ONLY			
4.	Sourc	e of F	unds (See Instructions)			
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5.	Chec	k if Di	sclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)			
6.	Citize	enship	or Place of Organization			
	Delav	vare				
		7.	Sole Voting Power			
	nber of		2,069,749(2)			
Shares Beneficially		8.	Shared Voting Power			
Owned by			0			
	ach orting	9.	Sole Dispositive Power			
	erson Vith:		2,069,749(2)			
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11.	Aggr	egate <i>F</i>	Amount Beneficially Owned by Each Reporting Person			
	2,069,749(2)					
12.			e Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)			
13.	Perce	nt of C	Class Represented by Amount in Row (11)			
	5.6%					
14.	Type	of Rep	oorting Person (See Instructions)			
	PN					

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1.	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)					
	MPM Oncology Impact Management GP LLC					
2.	Chec		Appropriate Box if a Member of a Group (See Instructions)			
	(a)		(b) ⊠ (1)			
3.		USE C				
4.	Sourc	e of F	unds (See Instructions)			
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5.			sclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)			
6.	Citize	enship	or Place of Organization			
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	nber of		2,069,749(2)			
	ares ficially	8.	Shared Voting Power			
	ned by					
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11.	Aggr	egate A	Amount Beneficially Owned by Each Reporting Person			
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12.	2,069,749(2) Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)					
12.	. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)					
13.	Perce	nt of C	Class Represented by Amount in Row (11)			
	5.6%	(3)				
14.			oorting Person (See Instructions)			
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1.	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)				
	Ansbert Gadicke				
2.	Chec		Appropriate Box if a Member of a Group (See Instructions)		
	(a)		(b) ⊠ (1)		
3.		USE C			
4.	Sourc	e of F	unds (See Instructions)		
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5.	Chec	k if Di	sclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)		
6.	Citize	enship	or Place of Organization		
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	Unite	d State			
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	nber of lares		0		
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	ned by		4 CED 020(D)		
	ach	0	4,672,838(2)		
	orting	9.	Sole Dispositive Power		
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\ \	/ith:	10.	Shared Dispositive Power		
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			4,672,838(2)		
11.	Aggregate Amount Beneficially Owned by Each Reporting Person				
- 10	4,672,838(2)				
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)				
13.	Perce	nt of C	Class Represented by Amount in Row (11)		
	12.79	6(3)			
14.			oorting Person (See Instructions)		

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- (3) This percentage is calculated based upon 36,904,446 outstanding common shares of the Issuer, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 4, 2021.

1.	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)				
	Luke	Evnin			
2.	Chec	k the A	Appropriate Box if a Member of a Group (See Instructions)		
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5.	Chec	k if Di	sclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)		
6.	Citize	enship	or Place of Organization		
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	nber of		0		
Shares Beneficially		8.	Shared Voting Power		
	ned by		2,603,089(2)		
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			2,603,089(2)		
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	2,603	,089(2			
12.			e Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)		
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13.	Percent of Class Represented by Amount in Row (11)				
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	7.1%	(3)			
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	IN				
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1.	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)					
	Todd Foley					
2.	Chec	k the A	appropriate Box if a Member of a Group (See Instructions)			
	(a)		(b) ⊠ (1)			
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3.	SEC	USE C	NI.Y			
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5.	Chec	k if Di	sclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)			
6.	Citize	enship	or Place of Organization			
	Unite	d State	es ·			
		7.	Sole Voting Power			
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Nun	iber of		0			
Shares		8.	Shared Voting Power			
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	ach		2,603,089(2)			
	orting	9.	Sole Dispositive Power			
	rson					
	/ith:		0			
		10.	Shared Dispositive Power			
			2,603,089(2)			
11.	Aggr	egate A	Amount Beneficially Owned by Each Reporting Person			
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	2,603	,089(2				
12.			Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)			
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13.	Descent of Class Depresented by Amount in Dev. (11)					
13.	Percent of Class Represented by Amount in Row (11)					
	7 10/	(2)				
	7.1%					
14.	Type	ot Rep	oorting Person (See Instructions)			
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- (3) This percentage is calculated based upon 36,904,446 outstanding common shares of the Issuer, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 4, 2021.

This Amendment No. 1 to Schedule 13D (this "Schedule 13D") amends and supplements the Schedule 13D previously filed by the undersigned with the Securities and Exchange Commission on July 6, 2020 (the "Original Schedule 13D"). This Schedule 13D/A is being filed by the Filing Persons to report the open market sales and distribution in kind of the Issuer's Common Shares by certain Filing Persons.

Items 4, 5 and 7 of the Original Schedule 13D are hereby amended and supplemented to the extent hereinafter expressly set forth and, except as amended and supplemented hereby, the Original Schedule 13D remains in full force and effect. All capitalized terms used in this Amendment No. 1 but not defined herein shall have the meanings ascribed thereto in the Original Schedule 13D.

Item 4. Purpose of Transaction

Item 4 of the Original Schedule 13D is hereby amended and supplemented by adding the following paragraph at the end of Item 4:

The MPM Entities sold an aggregate of 695,000 Common Shares in open market transactions on March 12, 2021 for aggregate gross proceeds of \$19,585,100. On March 15, 2021, BV 2014(B) distributed an aggregate of 24,271 Common Shares in a pro rata in-kind distribution to its limited partners for no consideration.

Item 5. Interest in Securities of the Issuer

(a) – (b) The following information with respect to the ownership of the Common Shares of the Issuer by the Filing Persons is provided as of March 22, 2021:

Reporting Person	Shares Held Directly	Sole Voting Power	Shared Voting Power	Sole Dispositive Power	Shared Dispositive Power	Beneficial Ownership	Percentage of Class (1)
BV 2014	2,364,040	2,364,040	0	2,364,040	0	2,364,040	6.4%
BV 2014(B)	157,677	157,677	0	157,677	0	157,677	0.4%
AM BV 2014 LLC	81,372	81,372	0	81,372	0	81,372	0.2%
UBS Oncology	2,069,749	2,069,749	0	2,069,749	0	2,069,749	5.6%
BV 2014 GP(2)	0	0	2,521,717	0	2,521,717	2,521,717	6.8%
BV 2014 LLC(3)	0	0	2,603,089	0	2,603,089	2,603,089	7.1%
Oncology Cayman(4)	0	0	2,069,749	0	2,069,749	2,069,749	5.6%
Oncology LP(4)	0	0	2,069,749	0	2,069,749	2,069,749	5.6%
Oncology GP(4)	0	0	2,069,749	0	2,069,749	2,069,749	5.6%
Ansbert Gadicke(5)	0	0	4,672,838	0	4,672,838	4,672,838	12.7%
Luke Evnin(6)	0	0	2,603,089	0	2,603,089	2,603,089	7.1%
Todd Foley(6)	0	0	2,603,089	0	2,603,089	2,603,089	7.1%

- (1) This percentage is calculated based upon 36,904,446 outstanding common shares of the Issuer, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 4, 2021.
- (2) Includes securities held by BV 2014 and BV 2014(B). BV 2014 GP and BV 2014 LLC are the direct and indirect general partners of BV 2014 and BV 2014(B).

- (3) Includes securities held by BV 2014, BV 2014(B) and AM BV2014 LLC. BV 2014 GP and BV 2014 LLC are the direct and indirect general partners of BV 2014 and BV 2014(B). BV 2014 LLC is the manager of AM BV2014 LLC.
- (4) Includes shares held by UBS Oncology. Oncology GP is the general partner of Oncology LP, the General Partner of Oncology (Cayman), the General Partner of UBS Oncology.
- (5) Includes securities held by BV 2014, BV 2014(B), AM BV 2014 LLC and UBS Oncology. The Reporting Person is a managing director of BV 2014 LLC and the managing director of Oncology GP.
- (6) Includes securities held by BV 2014, BV 2014(B) and AM BV 2014 LLC. The Reporting Person is a managing director of BV 2014 LLC.

Each Filing Person disclaims membership in a "group." Each Filing Person also disclaims beneficial ownership of any shares of the Issuer, except for the shares set forth in the table above next to the respective Filing Person's name in subsection (b) of this Item 5.

(c) The Reporting Persons sold the following Common Shares in the open market in the sixty days preceding the date of this filing:

		Sold by BV	Sold by AM BV 2014	Sold by UBS
Date of Sale	Price	2014	LLC	Oncology
3/12/2021	\$28.18	363,887	12,525	318,588

The information provided and incorporated by reference in Item 3 and Item 6 is hereby incorporated by reference in this Item 5.

- (d) Inapplicable.
- (e) Inapplicable.

Item 7. Material to Be Filed as Exhibits

C. Agreement regarding filing of joint Schedule 13D.

Signatures

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: March 22, 2021

MPM BIOVENTURES 2014, L.P.

By: MPM BioVentures 2014 GP LLC,

its General Partner

By: MPM BioVentures 2014 LLC,

Its Managing Member

By: /s/ Ansbert Gadicke

Name: Ansbert Gadicke
Title: Managing Director

MPM BIOVENTURES 2014 (B), L.P.

By: MPM BioVentures 2014 GP LLC,

its General Partner

By: MPM BioVentures 2014 LLC,

Its Managing Member

By: /s/ Ansbert Gadicke

Name: Ansbert Gadicke
Title: Managing Director

MPM ASSET MANAGEMENT INVESTORS BV2014 LLC

By: MPM BioVentures 2014 LLC

Its: Manager

By: /s/ Ansbert Gadicke

Name: Ansbert Gadicke
Title: Managing Director

MPM BIOVENTURES 2014 GP, LLC

By: MPM BioVentures 2014 LLC,

Its Managing Member

By: /s/ Ansbert Gadicke

Name: Ansbert Gadicke
Title: Managing Director

MPM BIOVENTURES 2014 LLC

By: /s/ Ansbert Gadicke
Name: Ansbert Gadicke
Title: Managing Director

UBS ONCOLOGY IMPACT FUND, L.P.

By: Oncology Impact Fund (Cayman) Management L.P.,

its General Partner

By: MPM Oncology Impact Management LP,

Its General Partner

By: MPM Oncology Impact Management GP LLC,

Its General Partner

By: /s/ Ansbert Gadicke
Name: Ansbert Gadicke

Title: Managing Director

ONCOLOGY IMPACT FUND (CAYMAN) MANAGEMENT L.P.

By: MPM Oncology Impact Management LP,

Its General Partner

By: MPM Oncology Impact Management GP LLC,

Its General Partner

By: /s/ Ansbert Gadicke

Name: Ansbert Gadicke Title: Managing Director

MPM ONCOLOGY IMPACT MANAGEMENT LP

By: MPM Oncology Impact Management GP LLC,

Its General Partner

By: /s/ Ansbert Gadicke

Name: Ansbert Gadicke
Title: Managing Director

MPM ONCOLOGY IMPACT MANAGEMENT GP LLC

By: /s/ Ansbert Gadicke

Name: Ansbert Gadicke

Title: Managing Director

By: /s/ Todd Foley

By: /s/ Luke Evnin

Name: Todd Foley

Name: Luke Evnin

By: /s/ Ansbert Gadicke

Name: Ansbert Gadicke

Schedule I

General Partners/Members

Ansbert Gadicke

c/o MPM Asset Management

450 Kendall Street

Cambridge, MA 02142

Principal Occupation: Managing director of MPM BioVentures 2014 LLC and managing director of MPM Oncology Impact Management LP.

Citizenship: USA

Luke Evnin

c/o MPM Asset Management

450 Kendall Street

Cambridge, MA 02142

Principal Occupation: Managing director of MPM BioVentures 2014 LLC.

Citizenship: USA

Todd Foley

c/o MPM Asset Management

450 Kendall Street

Cambridge, MA 02142

Principal Occupation: Managing director of MPM BioVentures 2014 LLC.

Citizenship: USA

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Exhibit Index

C. Agreement regarding filing of joint Schedule 13D.

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Exhibit C

Joint Filing Statement

I, the undersigned, hereby express my agreement that the attached Schedule 13D (and any amendments thereto) relating to the beneficial ownership by the undersigned of the equity securities of Repare Therapeutics Inc. is filed on behalf of each of the undersigned.

Date: March 22, 2021

MPM BIOVENTURES 2014, L.P.

By: MPM BioVentures 2014 GP LLC,

its General Partner

By: MPM BioVentures 2014 LLC,

Its Managing Member

By: /s/ Ansbert Gadicke

Name: Ansbert Gadicke Title: Managing Director

MPM BIOVENTURES 2014 (B), L.P.

By: MPM BioVentures 2014 GP LLC,

its General Partner

By: MPM BioVentures 2014 LLC,

Its Managing Member

By: /s/ Ansbert Gadicke

Name: Ansbert Gadicke Title: Managing Director

MPM ASSET MANAGEMENT INVESTORS BV2014 LLC

By: MPM BioVentures 2014 LLC

Its: Manager

By: /s/ Ansbert Gadicke

Name: Ansbert Gadicke Title: Managing Director

MPM BIOVENTURES 2014 GP, LLC

By: MPM BioVentures 2014 LLC,

Its Managing Member

By: /s/ Ansbert Gadicke

Name: Ansbert Gadicke
Title: Managing Director

MPM BIOVENTURES 2014 LLC

By: /s/ Ansbert Gadicke
Name: Ansbert Gadicke
Title: Managing Director

UBS ONCOLOGY IMPACT FUND, L.P.

By: Oncology Impact Fund (Cayman) Management L.P.,

its General Partner

By: MPM Oncology Impact Management LP,

Its General Partner

By: MPM Oncology Impact Management GP LLC,

Its General Partner

By: /s/ Ansbert Gadicke
Name: Ansbert Gadicke
Title: Managing Director

ONCOLOGY IMPACT FUND (CAYMAN) MANAGEMENT L.P.

By: MPM Oncology Impact Management LP,

Its General Partner

By: MPM Oncology Impact Management GP LLC,

Its General Partner

By: /s/ Ansbert Gadicke

Name: Ansbert Gadicke Title: Managing Director

MPM ONCOLOGY IMPACT MANAGEMENT LP

By: MPM Oncology Impact Management GP LLC,

Its General Partner

By: /s/ Ansbert Gadicke

Name: Ansbert Gadicke
Title: Managing Director

MPM ONCOLOGY IMPACT MANAGEMENT GP LLC

By: /s/ Ansbert Gadicke
Name: Ansbert Gadicke
Title: Managing Director

By: /s/ Todd Foley
Name: Todd Foley

By: /s/ Luke Evnin
Name: Luke Evnin

By: /s/ Ansbert Gadicke
Name: Ansbert Gadicke