

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL	
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

1. Name and Address of Reporting Person* <u>Foley Todd</u> (Last) (First) (Middle) C/O MPM CAPITAL 450 KENDALL STREET (Street) CAMBRIDGE MA 02142 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>Repare Therapeutics Inc. [RPTX]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) 05/25/2021	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Shares	05/25/2021		s ⁽¹⁾		2,852 ⁽²⁾	D	\$32.87 ⁽³⁾	2,414,595	I	See Footnote ⁽⁴⁾
Common Shares	05/25/2021		s ⁽¹⁾		44 ⁽⁵⁾	D	\$33.59	2,414,551	I	See Footnote ⁽⁶⁾
Common Shares	05/26/2021		s ⁽¹⁾		9,839 ⁽⁷⁾	D	\$32.74 ⁽⁸⁾	2,404,712	I	See Footnote ⁽⁹⁾
Common Shares	05/26/2021		s ⁽¹⁾		751 ⁽¹⁰⁾	D	\$33.01 ⁽¹¹⁾	2,403,961	I	See Footnote ⁽¹²⁾
Common Shares	05/27/2021		s ⁽¹⁾		1,906 ⁽¹³⁾	D	\$32.81 ⁽¹⁴⁾	2,402,055	I	See Footnote ⁽¹⁵⁾
Common Shares	05/27/2021		s ⁽¹⁾		1,597 ⁽¹⁶⁾	D	\$33.16 ⁽¹⁷⁾	2,400,458	I	See Footnote ⁽¹⁸⁾

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V		(A)	(D)					

Explanation of Responses:

- Transaction effected pursuant to a plan established pursuant to Rule 10b5-1 on 3/31/2021.
- The shares were sold as follows: 2,756 by MPM BioVentures 2014, L.P. ("BV 2014") and 96 by MPM Asset Management Investors BV2014 LLC ("AM BV2014").
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$32.45 to \$33.32 inclusive. The Reporting Person undertakes to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.
- The shares are held as follows: 2,202,927 by BV 2014, 135,843 by MPM BioVentures 2014(B), L.P. ("BV 2014(B)") and 75,825 by AM BV2014. MPM BioVentures 2014 GP LLC and MPM BioVentures 2014 LLC ("BV LLC") are the direct and indirect general partners of BV 2014 and BV 2014(B). BV LLC is the manager of AM BV2014. Todd Foley is a managing director of BV LLC. The Reporting Person disclaims beneficial ownership of the securities except to the extent of his pecuniary interest therein.
- The shares were sold as follows: 43 by BV 2014 and 1 by AM BV2014.
- The shares are held as follows: 2,202,884 by BV 2014, 135,843 by BV 2014(B) and 75,824 by AM BV2014. The Reporting Person disclaims beneficial ownership of the securities except to the extent of his pecuniary interest therein.
- The shares were sold as follows: 9,512 by BV 2014 and 327 by AM BV2014.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$31.955 to \$32.90 inclusive. The Reporting Person undertakes to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.
- The shares are held as follows: 2,193,372 by BV 2014, 135,843 by BV 2014(B) and 75,497 by AM BV2014. The Reporting Person disclaims beneficial ownership of the securities except to the extent of his pecuniary interest therein.
- The shares were sold as follows: 726 by BV 2014 and 25 by AM BV2014.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$32.98 to \$33.12 inclusive. The Reporting Person undertakes to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.
- The shares are held as follows: 2,192,646 by BV 2014, 135,843 by BV 2014(B) and 75,472 by AM BV2014. The Reporting Person disclaims beneficial ownership of the securities except to the extent

of his pecuniary interest therein.

13. The shares were sold as follows: 1,843 by BV 2014 and 63 by AM BV2014.

14. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$32.07 to \$33.05 inclusive. The Reporting Person undertakes to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.

15. The shares are held as follows: 2,190,803 by BV 2014, 135,843 by BV 2014(B) and 75,409 by AM BV2014. The Reporting Person disclaims beneficial ownership of the securities except to the extent of his pecuniary interest therein.

16. The shares were sold as follows: 1,544 by BV 2014 and 53 by AM BV2014.

17. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$33.075 to \$33.59 inclusive. The Reporting Person undertakes to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.

18. The shares are held as follows: 2,189,259 by BV 2014, 135,843 by BV 2014(B) and 75,356 by AM BV2014. The Reporting Person disclaims beneficial ownership of the securities except to the extent of his pecuniary interest therein.

Remarks:

/s/ Todd Foley

05/27/2021

** 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.

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