

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

☐ 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

OMB APPROVAL

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<p>1. Name and Address of Reporting Person*</p> <p><u>GADICKE ANSBERT</u></p> <p>(Last) (First) (Middle)</p> <p><u>C/O MPM CAPITAL</u></p> <p><u>450 KENDALL STREET</u></p> <p>(Street)</p> <p><u>CAMBRIDGE MA 02142</u></p> <p>(City) (State) (Zip)</p>	<p>2. Issuer Name and Ticker or Trading Symbol</p> <p><u>Repare Therapeutics Inc. [RPTX]</u></p>	<p>5. Relationship of Reporting Person(s) to Issuer (Check all applicable)</p> <p>Director <input checked="" type="checkbox"/> 10% Owner</p> <p>Officer (give title below) Other (specify below)</p>
	<p>3. Date of Earliest Transaction (Month/Day/Year)</p> <p><u>05/28/2021</u></p>	
	<p>4. If Amendment, Date of Original Filed (Month/Day/Year)</p>	<p>6. Individual or Joint/Group Filing (Check Applicable Line)</p> <p><input checked="" type="checkbox"/> Form filed by One Reporting Person</p> <p>Form filed by More than One Reporting Person</p>

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 Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Shares	05/28/2021		s ⁽¹⁾		16,742 ⁽²⁾	D	\$32.67 ⁽³⁾	4,223,930	I	See Footnote ⁽⁴⁾
Common Shares	06/01/2021		s ⁽¹⁾		15,141 ⁽⁵⁾	D	\$32.5 ⁽⁶⁾	4,208,789	I	See Footnote ⁽⁷⁾
Common Shares	06/02/2021		s ⁽¹⁾		5,918 ⁽⁸⁾	D	\$31.83 ⁽⁹⁾	4,202,871	I	See Footnote ⁽¹⁰⁾
Common Shares	06/02/2021		s ⁽¹⁾		297 ⁽¹¹⁾	D	\$32.42 ⁽¹²⁾	4,202,574	I	See Footnote ⁽¹³⁾

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		Date Exercisable	Expiration Date					

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: 7,131 by MPM BioVentures 2014, L.P. ("BV 2014"), 246 by MPM Asset Management Investors BV2014 LLC ("AM BV2014") and 9,365 by UBS Oncology Impact Fund L.P. ("UBS Oncology").
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$32.04 to \$32.89 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: 2,182,128 by BV 2014, 135,843 by MPM BioVentures 2014(B), L.P. ("BV 2014(B)"), 75,110 by AM BV2014 and 1,830,849 by UBS Oncology. 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. Ansbert Gadick is a managing director of BV LLC. MPM Oncology Impact Management GP LLC ("Oncology GP LLC") is the General Partner of MPM Oncology Impact Management LP, the General Partner of Oncology Impact Fund (Cayman) Management L.P., the General Partner of UBS Oncology Impact Fund, L.P. Ansbert Gadick is the Managing Member of Oncology GP 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: 6,449 by BV 2014, 222 by AM BV2014 and 8,470 by UBS Oncology.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$32.12 to \$32.98 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: 2,175,679 by BV 2014, 135,843 by BV 2014(B), 74,888 by AM BV2014 and 1,822,379 by UBS Oncology. The Reporting Person disclaims beneficial ownership of the securities except to the extent of his pecuniary interest therein.
- The shares were sold as follows: 2,521 by BV 2014, 87 by AM BV2014 and 3,310 by UBS Oncology.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$31.29 to \$32.24 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: 2,173,158 by BV 2014, 135,843 by BV 2014(B), 74,801 by AM BV2014 and 1,819,069 by UBS Oncology. The Reporting Person disclaims beneficial ownership of the securities except to the extent of his pecuniary interest therein.
- The shares were sold as follows: 126 by BV 2014, 4 by AM BV2014 and 167 by UBS Oncology.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$32.31 to \$32.58 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: 2,173,032 by BV 2014, 135,843 by BV 2014(B), 74,797 by AM BV2014 and 1,818,902 by UBS Oncology. The Reporting Person disclaims beneficial ownership of the securities except to the extent of his pecuniary interest therein.

Remarks:

/s/ Ansbert Gadicke

06/02/2021

** 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.

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.