SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934

(Amendment No. 5)*

REPARE THERAPEUTICS INC.

(Name of Issuer)

Common Shares

(Title of Class of Securities)

760273102

(CUSIP Number)

Ansbert Gadicke c/o MPM BioImpact LLC, 339 Boylston Street, Suite 1100 Boston, MA, 02116 617-425-9200

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications) 01/02/2025

(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.

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).

SCHEDULE 13D

CUSIP No. 760273102

1

Name of reporting person

MPM BioVentures 2014, L.P.

2 Check the appropriate box if a member of a Group (See Instructions)

| 3 SEC use only Source of funds (See Instructions) 4 WC 5 Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) 5 Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) 6 DELAWARE Sole Voting Power 7 1,394,624.00 Shared Voting Power 8 Sole Dispositive Power 9 0.00 Each Sole Dispositive Power 9 9 Person 1,394,624.00 11 1,394,624.00 9 Shared Dispositive Power 10 0.00 11 1,394,624.00 11 1,394,624.00 11 1,394,624.00 12 Check if the aggregate amount beneficially owned by each reporting person 11 1,394,624.00 12 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) 12 Percent of class represented by amount in Row (11) 13 3.3 % Type of Reporting Person (See Instructions) 14 PN | | _ | □ (a) ☑ (b) |
|--|----|-----------|--|
| 4 WC 5 Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) 5 Citizenship or place of organization 6 DELAWARE Sole Voting Power 7 1,394,624.00 Shares Shared Voting Power 8 0.00 Each Sole Dispositive Power Reporting 9 Person 1,394,624.00 With: Shared Dispositive Power 10 0.00 Reporting 9 Person 1,394,624.00 With: Shared Dispositive Power 10 0.00 13 Aggregate amount beneficially owned by each reporting person 11 1,394,624.00 13 Shared Dispositive Power 10 0.00 13 Percent of class represented by amount in Row (11) excludes certain shares (See Instructions) 12 Percent of class represented by amount in Row (11) 13 3.3 % 14 Type of Reporting Person (See Instructions) | 3 | 3 | SEC use only Source of funds (See Instructions) |
| 5 Citizenship or place of organization 6 DELAWARE Sole Voting Power 7 1,394,624.00 Shares Shared Voting Power Beneficially 8 Owned by 0.00 Each Sole Dispositive Power Person 1,394,624.00 With: Shared Dispositive Power 10 0.00 Aggregate amount beneficially owned by each reporting person 11 1,394,624.00 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) 12 Percent of class represented by amount in Row (11) 13 3.3 % Type of Reporting Person (See Instructions) 14 14 | 4 | 4 | |
| 6 Citizenship or place of organization 6 DELAWARE Sole Voting Power 7 Number of Shares Shared Voting Power Beneficially 8 Owned by 0.00 Each Sole Dispositive Power Reporting 9 Person 1,394,624.00 With: Shared Dispositive Power 10 0.00 Aggregate amount beneficially owned by each reporting person 11 1,394,624.00 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) 12 13 14 | | 5 | Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) |
| DELAWARE Sole Voting Power 7 Number of Shares Shared Voting Power Beneficially 8 Owned by 0.00 Each Sole Dispositive Power Reporting 9 Person 1,394,624.00 With: Shared Dispositive Power 10 0.00 Each 9 Person 1,394,624.00 With: Shared Dispositive Power 10 0.00 Each 13 Aggregate amount beneficially owned by each reporting person 11 1,394,624.00 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) 12 I2 I3 I3 I3 I3 I3 I3 I4 | 6 | <i>c</i> | |
| 7 1,394,624.00 Shares Shared Voting Power Beneficially 8 Owned by 0.00 Each Sole Dispositive Power Reporting 9 Person 1,394,624.00 With: Shared Dispositive Power 10 0.00 Aggregate amount beneficially owned by each reporting person 11 1,394,624.00 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) 12 Percent of class represented by amount in Row (11) 13 3.3 % Type of Reporting Person (See Instructions) 14 | | 6 | DELAWARE |
| Number of Shares1,394,624.00Shared Voting PowerBeneficially8Owned by0.00EachSole Dispositive PowerReporting9Person1,394,624.00With:Shared Dispositive Power100.00Aggregate amount beneficially owned by each reporting person111,394,624.0012Percent of class represented by amount in Row (11) excludes certain shares (See Instructions)123.3 %13Jype of Reporting Person (See Instructions)1414 | | | |
| Beneficially 8 Owned by 0.00 Each Sole Dispositive Power Reporting 9 Person 1,394,624.00 With: Shared Dispositive Power 10 0.00 Aggregate amount beneficially owned by each reporting person 11 1,394,624.00 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) 12 Percent of class represented by amount in Row (11) 13 3.3 % Type of Reporting Person (See Instructions) 14 |] | Number of | 1,394,624.00 |
| Owned by Each Reporting0.00 Sole Dispositive Power9 Person With:1,394,624.00 Shared Dispositive Power10 0.000.00Aggregate amount beneficially owned by each reporting person11 1,394,624.00 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions)1213 | | | • |
| Reporting 9 Person 1,394,624.00 With: Shared Dispositive Power 10 0.00 Aggregate amount beneficially owned by each reporting person 11 1,394,624.00 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) 12 13 3.3 % Type of Reporting Person (See Instructions) 14 | (| Owned by | 0.00 |
| Person1,394,624.00With:Shared Dispositive Power100.00Aggregate amount beneficially owned by each reporting person111,394,624.0012Check if the aggregate amount in Row (11) excludes certain shares (See Instructions)12Percent of class represented by amount in Row (11)133.3 %14Type of Reporting Person (See Instructions) | | | |
| 10 0.00 Aggregate amount beneficially owned by each reporting person 11 1,394,624.00 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) 12 13 3.3 % Type of Reporting Person (See Instructions) 14 |] | Person | |
| 0.00Aggregate amount beneficially owned by each reporting person111,394,624.00Check if the aggregate amount in Row (11) excludes certain shares (See Instructions)12133.3 %Type of Reporting Person (See Instructions)14 | W | With: | |
| 11 1,394,624.00 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) 12 Percent of class represented by amount in Row (11) 13 3.3 % Type of Reporting Person (See Instructions) 14 | | | |
| 1,394,624.00 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) Percent of class represented by amount in Row (11) 3.3 % Type of Reporting Person (See Instructions) 14 | 11 | 11 | Aggregate amount beneficially owned by each reporting person |
| 12 Percent of class represented by amount in Row (11) 13 3.3 % Type of Reporting Person (See Instructions) 14 | | 11 | 1,394,624.00 |
| Percent of class represented by amount in Row (11) 13 3.3 % Type of Reporting Person (See Instructions) 14 | 12 | 12 | Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) |
| 13 3.3 % Type of Reporting Person (See Instructions) 14 | | | |
| 3.3 %Type of Reporting Person (See Instructions) | 1 | 13 | Percent of class represented by amount in Row (11) |
| 14 | | | 3.3 % |
| | 14 | 14 | Type of Reporting Person (See Instructions) |
| | | | PN |

| 1 | Name of reporting person |
|-----------|---|
| 1 | MPM BioVentures 2014 (B), L.P. |
| | Check the appropriate box if a member of a Group (See Instructions) |
| 2 | (a) |
| | |
| 3 | SEC use only |
| 4 | Source of funds (See Instructions) |
| 4 | WC |
| ~ | Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) |
| 5 | |
| | Citizenship or place of organization |
| 6 | DELAWARE |
| Number of | |
| Number of | 7 Sole Voting Power |

| Shares Beneficially Owned by Each | 93,019.00 Shared Voting Power |
|--|--|
| Reporting Person With: | 0.00 Sole Dispositive Power |
| vv itii. | 9 93,019.00 |
| | Shared Dispositive Power 10 |
| | 0.00 |
| 11 | Aggregate amount beneficially owned by each reporting person |
| | 93,019.00 |
| 12 | Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) |
| | |
| 13 | Percent of class represented by amount in Row (11) |
| | 0.2 % Trace of Percenting Percent (See Instructions) |
| 14 | Type of Reporting Person (See Instructions) |
| | PN |

| 1 | Name of reporting person |
|--------------------------|---|
| 1 | MPM Asset Management Investors BV2014 LLC |
| | Check the appropriate box if a member of a Group (See Instructions) |
| 2 | □ (a) ☑ (b) |
| 3 | SEC use only |
| | Source of funds (See Instructions) |
| 4 | WC |
| 5 | Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) |
| 5 | |
| (| Citizenship or place of organization |
| 6 | DELAWARE |
| | Sole Voting Power |
| Number of | 48,001.00 |
| Shares | Shared Voting Power |
| Beneficially Owned by | 8 0.00 |
| Each | Sole Dispositive Power |
| Reporting Person | 9 |
| With: | 48,001.00 Shared Discositive Derver |
| | Shared Dispositive Power 10 |
| | 0.00 |
| 11 | Aggregate amount beneficially owned by each reporting person |

| 12 | 48,001.00 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) |
|----|---|
| 12 | Percent of class represented by amount in Row (11) |
| 13 | 0.1 % |
| 14 | Type of Reporting Person (See Instructions) OO |

| | Name of reporting person |
|--------------------------|--|
| 1 | UBS Oncology Impact Fund L.P. Check the appropriate box if a member of a Group (See Instructions) |
| 2 | □ (a) ☑ (b) |
| 3 | SEC use only |
| 4 | Source of funds (See Instructions) |
| - | WC |
| 5 | Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) |
| | Citizenship or place of organization |
| 6 | CAYMAN ISLANDS |
| | Sole Voting Power |
| Number of Shares | 1,122,888.00 Shared Voting Power |
| Beneficially Owned by | 0.00 |
| Each Reporting | Sole Dispositive Power 9 |
| Person | 1,122,888.00 |
| With: | Shared Dispositive Power 10 |
| | 0.00 |
| 11 | Aggregate amount beneficially owned by each reporting person |
| 11 | 1,122,888.00 |
| 12 | Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) |
| 13 | Percent of class represented by amount in Row (11) |
| | 2.6 % Type of Reporting Person (See Instructions) |
| 14 | PN |

CUSIP No. 760273102

| 1 | Name of reporting person |
|--------------------------|--|
| 1 | MPM BioVentures 2014 GP LLC |
| | Check the appropriate box if a member of a Group (See Instructions) |
| 2 | (a) |
| 3 | ✓ (b) SEC use only |
| 5 | Source of funds (See Instructions) |
| 4 | WC |
| | Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) |
| 5 | |
| <i>c</i> | Citizenship or place of organization |
| 6 | DELAWARE |
| | Sole Voting Power |
| Number of | 7 0.00 |
| Shares | Shared Voting Power |
| Beneficially Owned by | 8 1,487,643.00 |
| Each Reporting | Sole Dispositive Power |
| Person | 0.00 |
| With: | Shared Dispositive Power 10 |
| | 1,487,643.00 |
| 11 | Aggregate amount beneficially owned by each reporting person |
| 11 | 1,487,643.00 |
| 12 | Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) |
| | |
| 13 | Percent of class represented by amount in Row (11) |
| | 3.5 % Type of Reporting Person (See Instructions) |
| 14 | |
| | 00 |

SCHEDULE 13D

CUSIP No. 760273102

1

Name of reporting person

MPM BioVentures 2014 LLC Check the appropriate box if a member of a Group (See Instructions)

2

□ (a)☑ (b)

| 3 | SEC use only | |
|---|---|--|
| 4 | Source of funds (See Instructions) WC Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) | |
| 5 | | |
| 6 | Citizenship or place of organization | |
| 0 | DELAWARE | |
| Number of Shares Beneficially Owned by Each Reporting Person With: | Sole Voting Power 0.00 Shared Voting Power 1,535,644.00 Sole Dispositive Power 9 0.00 Shared Dispositive Power 10 | |
| | 1,535,644.00 | |
| 11 | Aggregate amount beneficially owned by each reporting person | |
| 12 | 1,535,644.00 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) | |
| 13 | Percent of class represented by amount in Row (11) 3.6 % | |
| 14 | Type of Reporting Person (See Instructions) OO | |
| | | |

| 1 | Name of reporting person |
|------------------------|---|
| 1 | Oncology Impact Fund (Cayman) Management L.P. |
| | Check the appropriate box if a member of a Group (See Instructions) |
| 2 | |
| 3 | SEC use only |
| | Source of funds (See Instructions) |
| 4 | WC |
| 5 | Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) |
| 3 | |
| | Citizenship or place of organization |
| 6 | CAYMAN ISLANDS |
| Number of | Sole Voting Power |
| Shares Beneficially | 7 0.00 |

| Owned by Each | 8 Shared Voting Power |
|------------------|--|
| Reporting | 1,122,888.00 |
| Person With: | Sole Dispositive Power 9 |
| | 0.00 |
| | Shared Dispositive Power |
| | 10 1,122,888.00 |
| 11 | Aggregate amount beneficially owned by each reporting person |
| 11 | 1,122,888.00 |
| 12 | Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) |
| 12 | |
| 13 | Percent of class represented by amount in Row (11) |
| 15 | 2.6 % |
| 14 | Type of Reporting Person (See Instructions) |
| 14 | PN |

| 1 | Name of reporting person |
|--|--|
| 1 | MPM BioImpact LLC |
| | Check the appropriate box if a member of a Group (See Instructions) |
| $\begin{array}{c} 2 \\ \hline (a) \\ \hline (b) \end{array}$ | |
| 3 | SEC use only |
| 1 | Source of funds (See Instructions) |
| 4 | WC |
| 5 | Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) |
| 5 | |
| (| Citizenship or place of organization |
| 6 | DELAWARE |
| | Sole Voting Power |
| Number of | 0.00 |
| Shares | Shared Voting Power |
| Beneficially Owned by | 8 1,122,888.00 |
| Each | Sole Dispositive Power |
| Reporting Person | 9 0.00 |
| With: | Shared Dispositive Power |
| | 10 |
| | 1,122,888.00 |
| 11 | Aggregate amount beneficially owned by each reporting person |
| | 1,122,888.00 |
| 12 | Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) |

| | Percent of class represented by amount in Row (11) |
|-----|--|
| 13 | |
| | 2.6 % |
| 1.4 | Type of Reporting Person (See Instructions) |
| 14 | 00 |

| 1 | Name of reporting person ANSBERT GADICKE Check the appropriate box if a member of a Group (See Instructions) |
|---|--|
| 2 | □ (a) ☑ (b) |
| 3 | SEC use only |
| 4 | Source of funds (See Instructions) |
| 5 | WC Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) Citizenship or place of organization |
| 6 | UNITED STATES |
| Number of Shares Beneficially Owned by Each Reporting Person With: | Sole Voting Power 0.00 Shared Voting Power 2,658,532.00 Sole Dispositive Power 0.00 Shared Dispositive Power 10 2,658,532.00 |
| 11 | Aggregate amount beneficially owned by each reporting person |
| 12 | 2,658,532.00 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) |
| 13 | Percent of class represented by amount in Row (11) |
| 14 | 6.3 % Type of Reporting Person (See Instructions) IN |
| | |

| 1 | Name of reporting person |
|-------------------------------------|--|
| 1 | LUKE EVNIN |
| | Check the appropriate box if a member of a Group (See Instructions) |
| 2 | □ (a) ☑ (b) |
| 3 | SEC use only |
| 4 | Source of funds (See Instructions) |
| 4 | WC |
| _ | Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) |
| 5 | |
| | Citizenship or place of organization |
| 6 | UNITED STATES |
| | Sole Voting Power |
| Number of Shares Beneficially | 7 |
| | 0.00 Shared Voting Power |
| | |
| Owned by Each | 1,535,644.00 |
| Reporting | Sole Dispositive Power 9 |
| Person With: | 0.00 |
| vv IuII. | Shared Dispositive Power 10 |
| | 1,535,644.00 |
| 11 | Aggregate amount beneficially owned by each reporting person |
| 11 | 1,535,644.00 |
| 10 | Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) |
| 12 | |
| | Percent of class represented by amount in Row (11) |
| 13 | 3.6 % |
| | Type of Reporting Person (See Instructions) |
| 14 | IN |
| | |
| Comment for | Type of Reporting Person: () |
| | |
| SCHEDU | LE 13D |

CUSIP No. 760273102

Name of reporting person

Todd Foley

1

2

3

Check the appropriate box if a member of a Group (See Instructions)

(a)(b)

SEC use only

| 4 | Source of funds (See Instructions) |
|---|--|
| 5 | WC Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) Citizenship or place of organization |
| 6 | UNITED STATES Sole Voting Power |
| Number of Shares Beneficially Owned by Each Reporting Person With: | 7 0.00 Shared Voting Power |
| | Shared Dispositive Power 10 1,535,644.00 |
| 11 | Aggregate amount beneficially owned by each reporting person 1,535,644.00 |
| 12 | Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) Percent of class represented by amount in Row (11) |
| 13 | 3.6 % Type of Reporting Person (See Instructions) |
| 14 | IN |

| Item 1. | Security and Issuer |
|--------------------|---|
| | Title of Class of Securities: |
| (a) | |
| | Common Shares |
| | Name of Issuer: |
| (b) | |
| | REPARE THERAPEUTICS INC. |
| | Address of Issuer's Principal Executive Offices: |
| (c) | |
| | 7171 FREDERICK BANTING, SUITE 270, BUILDING 2, SAINT-LAURENT, QUEBEC, CANADA , H4S 1Z9. |
| Item 1 Comment: | Explanatory Note: This Amendment No. 5 to Schedule 13D ('Amendment No. 5') is being filed as an amendment to the initial statement on Schedule 13D relating to the common shares (the 'Common Shares'), of Repare Therapeutics Inc. (the 'Issuer'), as filed with the Securities and Exchange Commission (the 'SEC') on July 6, 2020, as amended by Amendment No. 1 filed March 23, 2021, Amendment No. 2 filed May 25, 2021, Amendment No. 3 filed July 21, 2021 and Amendment No. 4 filed December 26,2024 (as amended, the 'Original Schedule 13D'). This Schedule |
| | |

Amendment No. 1 filed March 23, 2021, Amendment No. 2 filed May 25, 2021, Amendment No. 3 filed July 21, 2021 and Amendment No. 4 filed December 26,2024 (as amended, the 'Original Schedule 13D'). This Schedule 13D/A is being filed by the Filing Persons to report the open market sales of the Issuer's Common Shares by certain Filing Persons. Items 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. 5 but not defined herein shall have the meanings ascribed thereto in the Original Schedule 13D.

Item 5. Interest in Securities of the Issuer

(a) See rows (11) and (13) of the Filing Persons Owner Profile of this Amendment No. 5 for the aggregate number of Common Shares and percentages of the shares of Common Shares beneficially owned by the Filing Person. The Common Shares are held as follows: * 1,394,624 shares are held directly by BV 2014; * 93,019 shares are held directly by BV 2014(B); * 48,001 shares are held directly by AM BV2014 LLC; and * 1,122,888 shares are held directly by UBS Oncology. BV 2014 GP and BV 2014 LLC are the direct and indirect general partners of BV 2014 and BV 2014(B) and, accordingly, may be deemed to beneficially own the shares held by BV 2014 and BV 2014(B). BV 2014 LLC is the managing member of AM BV2014 LLC and, accordingly, may be deemed to beneficially own the shares held by AM BV2014 LLC. BioImpact and Oncology Cayman are the direct and indirect general partners of UBS Oncology and, accordingly, may be deemed to beneficially own the shares held by UBS Oncology. Drs. Gadicke and Evnin and Mr. Foley are the managing directors of BV 2014 LLC and, accordingly, may be deemed to beneficially own the shares held by BV 2014, BV 2014(B) and AM BV2014 LLC. Dr. Gadicke is the managing partner of BioImpact and, accordingly may be deemed to beneficially own the shares held by UBS Oncology. Calculation of the percentage of the shares of Common Shares beneficially owned is based upon 42,510,708 Common Shares outstanding as of November 1, 2024, as reported in the Issuer's Form 10-Q filed with the SEC on November 7, 2024.

See rows (7) through (10) of the Filing Persons Owner Profile of this Amendment No. 5 for the number of shares as to which there is sole power to vote or to direct the vote, sole power to dispose or to direct the disposition, or shared power to dispose or to direct the disposition.

The Reporting Persons sold the following Common Shares in the open market in the sixty days preceding the date of this filing: Date of Sale Price Range Ave. Price Sold by Sold by Sold By AM BV Sold by BV 2014 BV 2104(B) 2014 LLC UBS Oncology 12/24/24 \$1.29-\$1.355 \$1.32 15,265 1,018 526 12,291 12/26/24 \$1.295-\$1.37 \$1.32 25,303

- (c) 1,688 871 20,373 12/27/24 \$1.25-\$1.32 \$1.28 33,166 2,212 1,142 26,703 12/30/24 \$1.2044-\$1.29\$1.23 48,204 3,215 1,660 38,812 12/31/24 \$1.2531-\$1.34\$1.29 80,548 5,372 2,773 64,853 1/2/25 \$1.30-\$1.38 \$1.35 69,616 4,643 2,397 56,052 1/3/25 \$1.305-\$1.41 \$1.38 64,849 4,325 2,233 52,214
- (d) Inapplicable.

(b)

- (e) Inapplicable.
- Item 7. Material to be Filed as Exhibits.

Joint Filing Statement

SIGNATURE

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.

MPM BioVentures 2014, L.P.

| | Signature: | /s/ Ansbert Gadicke |
|------------------------|----------------|---|
| | Name/Title: | Managing Director of MPM BioVentures 2014 LLC, the Managing Member of MPM BioVentures 2014 GP LLC, the General Partner of MPM BioVentures 2014, L.P. |
| | Date: | 01/06/2025 |
| MPM BioVentures 2014 | (B), L.P. | |
| | Signature: | /s/ Ansbert Gadicke |
| | Name/Title: | Managing Director of MPM BioVentures 2014 LLC, Managing Member of MPM BioVentures 2014 GP LLC, the General Partner of MPM BioVentures 2014 (B), L.P |
| | Date: | 01/06/2025 |
| MPM As | set Management | t Investors BV2014 LLC |
| | Signature: | /s/ Ansbert Gadicke |
| | Name/Title: | Managing Director of MPM BioVentures 2014 LLC, the manager of MPM Asset Management Investors BV2014 LLC |
| | Date: | 01/06/2025 |
| UBS Oncology Impact Fu | ind L.P. | |
| | Signature: | /s/ Ansbert Gadicke |
| | Name/Title: | Managing Partner of MPM BioImpact LLC, the GP of Oncology Impact Fund (Cayman) Management L.P., the GP of UBS Oncology Impact Fund L.P. |
| | Date: | 01/06/2025 |
| MPM BioVentures 2014 | GP LLC | |
| | Signature: | /s/ Ansbert Gadicke |

Managing Director of MPM BioVentures 2014 Name/Title: LLC, the Managing Member of MPM BioVentures 2014 GP LLC

MPM BioVentures 2014 LLC

Signature: /s/ Ansbert Gadicke Name/Title: Managing Director Date: 01/06/2025

Oncology Impact Fund (Cayman) Management L.P.

01/06/2025

Signature: /s/ Ansbert Gadicke Managing Partner of MPM BioImpact LLC, the Name/Title: General Partner of Oncology Impact Fund (Cayman) Management L.P. Date: 01/06/2025

MPM BioImpact LLC

Signature: /s/ Ansbert Gadicke Name/Title: Managing Partner Date: 01/06/2025

ANSBERT GADICKE

Signature: /s/ Ansbert Gadicke Name/Title: Ansbert Gadicke Date: 01/06/2025

LUKE EVNIN

Signature: /s/ Luke Evnin Name/Title: Luke Evnin Date: 01/06/2025

Todd Foley

Signature: /s/ Todd Foley Name/Title: Todd Foley Date: 01/06/2025

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: January 6, 2025

MPM BioVentures 2014, L.P.

- By: MPM BioVentures 2014 GP LLC, its General Partner
- By: MPM BioVentures 2014 LLC, Its Managing Member
- By: <u>/s/ Ansbert Gadicke</u>
- 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: <u>/s/ Ansbert Gadicke</u>

Name: Ansbert Gadicke

Title: Managing Director

MPM Asset Management Investors BV 2014 LLC

By: MPM BioVentures 2014 LLC Its: Manager

By: <u>/s/ Ansbert Gadicke</u>

Name: Ansbert Gadicke

Title: Managing Director

MPM BioVentures 2014 GP, LLC

By: MPM BioVentures 2014 LLC, Its Managing Member

By: <u>/s/ Ansbert Gadicke</u> 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 BioImpact LLC, Its General Partner

By: <u>/s/ Ansbert Gadicke</u>

Name: Ansbert Gadicke

Title: Managing Partner

Oncology Impact Fund (Cayman) Management L.P.

By: MPM BioImpact LLC, Its General Partner

| By: | /s/ Ansbert Gadicke |
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| Name: | Ansbert Gadicke |
| Title: | Managing Partner |

MPM BioImpact LLC

| By: | /s/ Ansbert Gadicke |
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| Name: | Ansbert Gadicke |
| Title: | Managing Partner |

| By: | <u>/s/ Todd Foley</u> |
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| Name: | Todd Foley |

By: <u>/s/ Luke Evnin</u> Name: Luke Evnin

By: <u>/s/ Ansbert Gadicke</u> Name: Ansbert Gadicke