June 16, 2020

## VIA EDGAR

U.S. Securities and Exchange Commission Division of Corporation Finance 100 F Street, N.E. Washington, D.C. 20549

- Attn: Ms. Tracey McKoy Ms. Kate Tillan Mr. Tim Buchmiller Ms. Celeste Murphy
- Re: Repare Therapeutics Inc. Registration Statement on Form S-1 Registration No. 333-238822

## Acceleration Request Requested Date: June 18, 2020 Requested Time: 4:00 PM, Eastern Daylight Time

## Ladies and Gentlemen:

In accordance with Rule 461 under the Securities Act of 1933, as amended (the "*Act*"), Morgan Stanley & Co. LLC, Goldman Sachs & Co. LLC, Cowen and Company, LLC and Piper Sandler & Co., as representatives of the several underwriters, hereby join Repare Therapeutics Inc. in requesting that the Securities and Exchange Commission (the "*Commission*") take appropriate action to cause the Registration Statement on Form S-1 (File No. 333-238822) (the "*Registration Statement*") to become effective on June 18, 2020, at 4:00 PM, Eastern Daylight Time, or as soon as practicable thereafter.

Pursuant to Rule 460 under the Act, please be advised that we will take reasonable steps to secure adequate distribution of the preliminary prospectus, to underwriters, dealers, institutions and others, prior to the requested effective time of the Registration Statement.

We have been informed by the participating underwriters that they will comply with the requirements of Rule 15c2-8 under the Securities Exchange Act of 1934, as amended, to the extent applicable.

[Signature Page Follows]

Very truly yours,

Morgan Stanley & Co. LLC

By:/s/ Kalli DircksName:Kalli DircksTitle:Executive Director

Goldman Sachs & Co. LLC

/s/ Matthew Leskowitz
Matthew Leskowitz
Managing Director

Cowen and Company, LLC

By:/s/ Bill FollisName:Bill FollisTitle:Managing Director

Piper Sandler & Co.

By:	/s/ Neil Riley
Name:	Neil Riley
Title:	Managing Director

cc: Lloyd M. Segal, Repare Therapeutics Inc. Mitchell S. Bloom, Goodwin Procter LLP Seo Salimi, Goodwin Procter LLP Divakar Gupta, Cooley LLP Ryan S. Sansom, Cooley LLP Marc A. Recht, Cooley LLP Courtney T. Thorne, Cooley LLP

[Signature Page to Acceleration Request]