# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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# FORM 8-K

#### CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): July 23, 2018

# ACCELERON PHARMA INC.

(Exact name of Registrant as specified in its charter)

001-36065

27-0072226

Delaware

(State or other jurisdiction	(Commission	(I.R.S. Employer Identification Number)
of incorporation)	File Number)	
128 Sidney Street		
Cambridge, MA		
(Address of principal		02139
executive offices)		(Zin Code)

Registrant's telephone number, including area code: (617) 649-9200

# Not Applicable

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

provisic	IIIS.	
	Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)	
	Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)	
	Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))	
	Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))	
Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).		
Emerging growth company		
If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.		

## Item 8.01 Other Events.

On July 23, 2018, Acceleron Pharma Inc. issued a press release titled "Acceleron Announces Preliminary Results from Part 1 of the ACE-083 Phase 2 Trial in Patients with Charcot-Marie-Tooth Disease at the 2018 Annual Meeting of the Peripheral Nerve Society."

A copy of the press release is attached as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein by reference.

## Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit Number	ם	Description of Exhibit
99.1	Press release of Acceleron Pharma Inc. dated July 23, 2018	
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## **SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

# ACCELERON PHARMA INC.

By: /s/ John D. Quisel, J.D., Ph.D.

John D. Quisel, J.D., Ph.D.

Executive Vice President and Chief Business Officer

Date: July 26, 2018



# Acceleron Announces Preliminary Results from Part 1 of the ACE-083 Phase 2 Trial in Patients with Charcot-Marie-Tooth Disease at the 2018 Annual Meeting of the Peripheral Nerve Society

- Mean total muscle volume increases of more than 12% seen in the tibialis anterior -
- Company plans to initiate Part 2 of the CMT Phase 2 trial in the third quarter of 2018 -

Cambridge, Mass. – July 23, 2018 – Acceleron Pharma Inc. (Nasdaq: XLRN), a leading biopharmaceutical company in the discovery and development of TGF-beta therapeutics to treat serious and rare diseases, today announced positive preliminary results from Part 1 of the Phase 2 clinical trial with ACE-083 in patients with Charcot-Marie-Tooth (CMT) disease at the Peripheral Nerve Society (PNS) annual meeting held in Baltimore, Maryland. CMT is one of the most common inherited neurological diseases and is associated with significant focal muscle weakness. The Company plans to initiate Part 2 of the ACE-083 CMT Phase 2 trial in the third quarter of 2018.

"Preliminary Phase 2 results of ACE-083 in patients with CMT show robust mean increases in total and contractile muscle volume, reductions in fat fraction, and an encouraging safety profile," said Robert K Zeldin, M.D., Chief Medical Officer of Acceleron. "We now look forward to initiating the randomized, placebo-controlled portion of the Phase 2 trial in which we will evaluate ACE-083's potential to improve function over a six-month treatment period."

Part 1 of the trial was an open-label, dose-escalation study that enrolled a total of 18 patients (in three cohorts of six patients each) with CMT1 or CMTX who received ACE-083 at dose levels of 150 mg, 200 mg, or 240 mg. ACE-083 was administered by injection into the tibialis anterior (TA) muscle bilaterally once every three weeks for three months to evaluate safety and increases in muscle volume. The TA, which is located in the lower leg, is the primary muscle responsible for ankle dorsiflexion, or the ability to lift the front of the foot when taking a step. TA weakness can result in foot drop and increased risk of falls.

Muscle volume was measured by magnetic resonance imaging (MRI) three weeks after the last injection of ACE-083. Muscle volume and fat fraction are represented as the changes from baseline averaged for each side.

- Mean total muscle volume (TMV) increases ranged from 12.6% to 14.2%.
- Mean absolute decreases (improvement) in fat fraction ranged from 1.7% to 3.5%.

In addition, treatment with ACE-083 resulted in mean increases from baseline in contractile muscle volume (an MRI-derived calculation to measure viable, functional muscle volume as part of the TMV), ranging from 15.8% to 19.6%.

The most common adverse events—injection-site reactions, muscle spasms, and myalgia—were mild or moderate (grades 1-2).

"There are currently no FDA-approved therapies for patients with CMT with muscle weakness. The muscle volume and fat fraction changes demonstrated in Part 1 of the ACE-083 trial are encouraging," said Florian P. Thomas, M.D., neurologist and principal investigator at Hackensack Meridian School of Medicine at Seton Hall University. "We're hopeful that ACE-083 may become an important option for patients."

The 2018 PNS ACE-083 Part 1 oral and poster presentations are available in the "Science" section on Acceleron's website, <a href="www.acceleronpharma.com">www.acceleronpharma.com</a>.

The double-blind, placebo-controlled Part 2 of the CMT Phase 2 trial will enroll approximately 40 patients who will be randomized (1:1) to receive either placebo or ACE-083. Patients will be evaluated for changes in muscle volume, fat fraction, strength, function and safety over a six-month primary treatment period, followed by a six-month open-label treatment period. Preliminary results are expected by the end of 2019.

For additional information on this clinical trial, please visit clinicaltrials.gov, identifier NCT03124459.

#### **About ACE-083**

ACE-083 is a locally-acting therapeutic candidate, based on the naturally-occurring protein follistatin, which utilizes the Myostatin+ approach to inhibit multiple TGF-beta ligands. It is designed to have a concentrated effect along targeted muscles to maximize growth and strength selectively in the muscles into which the drug is administered. Acceleron is developing ACE-083 for disorders such as CMT disease and facioscapulohumeral muscular dystrophy (FSHD), in which improved muscle strength in target muscles may provide a clinical benefit and enhance quality of life. For more information, please visit www.clinicaltrials.gov.

#### About Charcot-Marie-Tooth Disease (CMT)

CMT is one of the most common inherited neurologic diseases. It is estimated to affect more than 125,000 people in the United States. The primary clinical manifestations of CMT include muscle weakness in the lower legs and arms. The lower leg muscle weakness can result in foot drop leading to a high-stepped gait and frequent tripping or falls. The disease is typically diagnosed by the presence of a characteristic pattern of muscle weakness, nerve conduction studies, and genetic testing. There are no FDA-approved drug therapies for CMT.

#### **About Acceleron**

Acceleron is a Cambridge-based, clinical-stage biopharmaceutical company dedicated to the discovery, development, and commercialization of therapeutics to treat serious and rare diseases. The Company's leadership in the understanding of TGF-beta biology and protein engineering generates innovative compounds that engage the body's ability to regulate cellular growth and repair.

Acceleron focuses its research and development efforts in hematologic, neuromuscular, and pulmonary diseases. In hematology, the Company and its global collaboration partner, Celgene, are developing luspatercept for the treatment of chronic anemia in myelodysplastic syndromes, beta-thalassemia, and myelofibrosis. Acceleron is also advancing its neuromuscular franchise with two distinct Myostatin+ agents, ACE-083 and ACE-2494, and a Phase 2 pulmonary program with sotatercept in pulmonary arterial hypertension.

For more information, please visit www.acceleronpharma.com. Follow Acceleron on Social Media: @AcceleronPharma and LinkedIn.

#### **Forward-Looking Statements**

This press release contains forward-looking statements about the Company's strategy, future plans and prospects, including statements regarding the development of the Company's compounds, the timeline for clinical development and regulatory approval of the Company's compounds and the expected timing for reporting of data from ongoing clinical trials. The words "anticipate," "believe," "could," "estimate," "expect," "goal," "intend," "may," "plan," "potential," "project," "should," "target," "will," "would," and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words.

Actual results could differ materially from those included in the forward-looking statements due to various factors, risks and uncertainties, including, but not limited to, that preclinical testing of the Company's compounds and data from clinical trials may not be predictive of the results or success of ongoing or later clinical trials, that the results of any clinical trial may not be predictive of the results or success of other clinical trials of the same product candidate, that the development of the Company's compounds will take longer and/or cost more than planned, that the Company will be unable to successfully complete the clinical development of the Company's compounds, that the Company may be delayed in initiating, enrolling or completing any clinical trials, and that the Company's compounds will not receive regulatory approval or become commercially successful products. These and other risks and uncertainties are identified under the heading "Risk Factors" included in the Company's most recent Annual Report on Form 10-K, and other filings that the Company has made and may make with the SEC in the future.

The forward-looking statements contained in this press release are based on management's current views, plans, estimates, assumptions and projections with respect to future events, and the Company does not undertake and specifically disclaims any obligation to update any forward-looking statements.

#### Contacts:

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Source: Acceleron Pharma

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