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File Number)

27-0072226 (I.R.S. Employer Identification Number)

128 Sidney Street Cambridge, MA (Address of principal executive offices)

02139 (Zip 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 (see General Instruction A.2. below):

o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

o Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

o Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

EXPLANATORY NOTE

This Amendment No. 1 to the Current Report on Form 8-K (the "Amendment") relates to the Form 8-K filed by Acceleron Pharma Inc. with the Securities and Exchange Commission on May 5, 2015 (the "Original 8-K"). The Amendment corrects an inadvertent misstatement of the location of the 13th International Symposium on MDS contained in the Original 8-K. This Amendment amends and restates in its entirety Item 8.01 of the Original 8-K. No other changes were made to the Original 8-K. References to the exhibits filed with the Amendment are references to the exhibits filed with the Original 8-K.

Item 8.01 Other Events.

On May 2, 2015, Acceleron Pharma Inc. issued a press release announcing preliminary data from the ongoing phase 2 clinical trial of luspatercept in patients with lower risk myelodysplastic syndromes, or MDS, at the 13th International Symposium on MDS in Washington, D.C.

A copy of the press release is filed herewith as Exhibit 99.1 and is incorporated herein by reference.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

99.1 Press Release of Acceleron Pharma Inc. dated May 2, 2015 (incorporated by reference to Exhibit 99.1 to the Current Report on Form 8-K filed with the Securities and Exchange Commission on May 5, 2015).

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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 Quisel John Quisel Senior Vice President and General Counsel

Date: May 6, 2015

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