

**Cyclerion Therapeutics, Inc.**  
**301 Binney Street**  
**Cambridge, MA 02142**

April 22, 2019

**VIA EDGAR AND E-MAIL**

United States Securities and Exchange Commission  
Division of Corporation Finance  
100 F Street, N.E.  
Washington, D.C. 20549-6010

Attention: Christine Westbrook

**Re: Cyclerion Therapeutics, Inc. Registration Statement on Form S-1 (Registration File No. 333-230944)**

Ladies and Gentlemen:

In accordance with Rule 461 of Regulation C of the General Rules and Regulations under the Securities Act of 1933, as amended, we hereby request acceleration of the effective date of the Registration Statement on Form S-1 (Registration File No. 333-230944) (the "**Registration Statement**") of Cyclerion Therapeutics, Inc. (the "**Company**"). We respectfully request that the Registration Statement become effective as of 4:00 p.m., Eastern time, on April 23, 2019, or as soon as practicable thereafter. Once the Registration Statement has been declared effective, please orally confirm that event with our counsel, Morgan, Lewis & Bockius LLP, by calling Bryan Keighery at (617) 341-7269.

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Very truly yours,

**Cyclerion Therapeutics, Inc.**

By: /s/ Peter M. Hecht

Peter M. Hecht,  
Chief Executive Officer

CC: Larry Miller, Cyclerion Therapeutics, Inc.  
Laurie A. Cervený, Morgan, Lewis & Bockius LLP  
Bryan S. Keighery, Morgan, Lewis & Bockius LLP

*[Cyclerion Therapeutics, Inc. — Signature Page to Request for Acceleration]*

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