

January 19, 2017

VIA EDGAR AND FACSIMILE

United States Securities and Exchange Commission
Division of Corporation Finance
100 F Street, N.E.
Washington, DC 20549
Attention: Mr. Johnny Gharib

Re: *Arrowhead Pharmaceuticals, Inc.*
Registration Statement on Form S-3 (File No. 333-214311)

Ladies and Gentlemen:

Reference is made to the letter from Arrowhead Pharmaceuticals, Inc., a Delaware corporation (the "Company"), dated January 13, 2017, requesting acceleration of the effectiveness of the above-referenced Registration Statement. The Company's request for acceleration of effectiveness of the above-referenced Registration Statement is hereby withdrawn.

Please do not hesitate to contact the undersigned at (626) 304-3400, or Ryan Murr of Gibson, Dunn & Crutcher LLP at (415) 393-8373 with any questions or comments with respect to this letter.

Very truly yours,

Arrowhead Pharmaceuticals, Inc.

By: /s/ Christopher Anzalone
Dr. Christopher Anzalone
President and Chief Executive Officer

cc: Ryan Murr, Gibson, Dunn & Crutcher LLP