Section 1: CORRESP

SIGNAL GENETICS, INC.
5740 Fleet Street
Carlsbad, California 92008

January 6, 2017

VIA EDGAR

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

Re: Signal Genetics, Inc. – Registration Statement – Form S-4 (File No. 333-214893)

Ladies and Gentlemen:

Pursuant to Rule 461 of the Securities Act of 1933, as amended, Signal Genetics, Inc. (the "Registrant") hereby requests that the effective date of the above-captioned registration statement on Form S-4 (as amended, the "Registration Statement"), be accelerated so that it will be declared effective at 4:00 p.m., Eastern Time, on January 9, 2017 or as soon thereafter as may be practicable. Please call Patty DeGaetano of Pillsbury Winthrop Shaw Pittman LLP at (858) 509-4033 to confirm the effectiveness of the Registration Statement.

Sincerely,

SIGNAL GENETICS, INC.

By: /s/ Tamara A. Seymour
Tamara A. Seymour
Chief Financial Officer

cc: Mike Hird, Esq.
Patty DeGaetano, Esq.

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