



DIVISION OF
CORPORATION FINANCE

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

June 23, 2015

Via E-mail

Mr. Simon Dingemans
Chief Financial Officer
GlaxoSmithKline plc
980 Great West Road
Brentford
Middlesex
TW8 9GS
United Kingdom

Re: GlaxoSmithKline plc
Form 20-F for the Fiscal Year Ended December 31, 2014
Filed February 27, 2015
File No. 1-15170

Dear Mr. Dingemans:

We have completed our review of your filing. We remind you that our comments or changes to disclosure in response to our comments do not foreclose the Commission from taking any action with respect to the company or the filing and the company may not assert staff comments as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States. We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filing to be certain that the filing includes the information the Securities Exchange Act of 1934 and all applicable rules require.

Sincerely,

/s/ Sharon M. Blume

Sharon M. Blume
Accounting Branch Chief