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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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**FORM 20-F/A**  
Amendment No. 1

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REGISTRATION STATEMENT PURSUANT TO SECTION 12(b) OR (g) OF THE SECURITIES EXCHANGE ACT OF 1934

OR

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2017

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

OR

SHELL COMPANY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Commission file number 1-15170

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**GlaxoSmithKline plc**

(Exact name of Registrant as specified in its charter)

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England

(Jurisdiction of incorporation or organization)

980 Great West Road, Brentford, Middlesex TW8 9GS England

(Address of principal executive offices)

Victoria Whyte

Company Secretary

GlaxoSmithKline plc

980 Great West Road

Brentford, TW8 9GS

England

+44 20 8047 5000

company.secretary@gsk.com

(Name, Telephone, E-mail and/or Facsimile number and Address of Company Contact Person)

Securities registered or to be registered pursuant to Section 12(b) of the Act:

<u>Title of Each Class</u>	<u>Name of Each Exchange On Which Registered</u>
American Depositary Shares, each representing	
2 Ordinary Shares, Par value 25 pence	New York Stock Exchange
5.650% Notes due 2018	New York Stock Exchange
2.850% Notes due 2022	New York Stock Exchange
2.800% Notes due 2023	New York Stock Exchange
5.375% Notes due 2034	New York Stock Exchange
6.375% Notes due 2038	London Stock Exchange
4.200% Notes due 2043	New York Stock Exchange
	New York Stock Exchange

Securities registered or to be registered pursuant to Section 12(g) of the Act:

**None**  
(Title of class)

**Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act:**

**None**  
(Title of class)

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Indicate the number of outstanding shares of each of the issuer's classes of capital or common stock as of the close of the period covered by the annual report.

**Ordinary Shares of Par value 25 pence each**

**5,372,553,820**

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Yes  No

If this report is an annual or transition report, indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934.

Yes  No

Note – Checking the box above will not relieve any registrant required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 from their obligations under those Sections.

Indicate by check mark whether the registrant (1) has filed all reports to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes  No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files).

Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, or a non-accelerated filer. See definition of “accelerated filer” and “large accelerated filer” in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer       Accelerated filer       Non-accelerated filer       Emerging growth company

If an emerging growth company that prepares its financial statements in accordance with U.S. GAAP, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards† provided pursuant to Section 13(a) of the Exchange Act.

† The term “new or revised financial accounting standard” refers to any update issued by the Financial Accounting Standards Board to its Accounting Standards Codification after April 5, 2012.

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing:

U.S. GAAP       International Financial Reporting Standards as issued by the International Accounting Standards Board       Other

If “Other” has been checked in response to the previous question, indicate by check mark which financial statement item the registrant has elected to follow.

Item 17       Item 18

If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

Yes  No

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### **Explanatory Note**

GlaxoSmithKline plc (“GSK”) is filing this Amendment No. 1 (the “Form 20-F/A”) to its Annual Report on Form 20-F for the year ended December 31, 2017 (the “Form 20-F”), which was filed with the Securities and Exchange Commission on March 16, 2018, to submit the Interactive Data File (as defined in Rule 11 of Regulation S-T) with respect to the audited consolidated financial statements of GSK and its consolidated subsidiaries for that fiscal year as an exhibit to the Form 20-F pursuant to paragraph 101 under “Instructions as to Exhibits” of Form 20-F in accordance with Rule 405 of Regulation S-T. Exhibit 101 was omitted from the Form 20-F in accordance with the 30-day grace period provided under Rule 405(a)(2)(ii) of Regulation S-T.

Except as set forth above, this Form 20-F/A does not modify or update any of the disclosures in the Form 20-F. This Form 20-F/A speaks as of the time of filing of the Form 20-F, does not reflect events that may have occurred subsequent to such filing, and does not modify or update in any way disclosures made in the Form 20-F.

Item 19      **Exhibits**

- 101.INS\*      XBRL Instance Document
- 101.SCH\*      XBRL Taxonomy Extension Schema Linkbase Document
- 101.CAL\*      XBRL Taxonomy Extension Calculation Linkbase Document
- 101.DEF\*      XBRL Taxonomy Extension Definition Linkbase Document
- 101.LAB\*      XBRL Taxonomy Extension Label Linkbase Document
- 101.PRE\*      XBRL Taxonomy Extension Presentation Linkbase Document

\*      In accordance with Rule 402 of Regulation S-T, the information in these exhibits shall not be deemed to be “filed” for purposes of Section 18 of the Exchange Act, or otherwise subject to the liability of that section, and shall not be incorporated by reference into any registration statement or other document filed under the Securities Act, or the Exchange Act, except as shall be expressly set forth by specific reference in such filing.

**Signature**

The registrant hereby certifies that it meets all of the requirements for filing on Form 20-F and that it has duly caused and authorized the undersigned to sign this Amendment No.1 to the Annual Report on Form 20-F on its behalf.

**GlaxoSmithKline plc**

March 20, 2018

By: /s/ Simon Dingemans  
Simon Dingemans  
Chief Financial Officer