

RESPONSE GENETICS INC

Form 3

September 21, 2012

FORM 3**UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

OMB APPROVAL

OMB
Number: 3235-0104Expires: January 31,
2005Estimated average
burden hours per
response... 0.5**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF
SECURITIES**Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting

Person *

GLAXOSMITHKLINE PLC

(Last)

(First)

(Middle)

980 GREAT WEST ROAD

(Street)

BRENTFORD

MIDDLESEX, X0 XO TW8

9GS

(City)

(State)

(Zip)

2. Date of Event Requiring
Statement

(Month/Day/Year)

09/13/2012

3. Issuer Name and Ticker or Trading Symbol

RESPONSE GENETICS INC [RGDX]

4. Relationship of Reporting
Person(s) to Issuer

(Check all applicable)

____ Director ____X____ 10% Owner
____ Officer ____ Other
(give title below) (specify below)5. If Amendment, Date Original
Filed(Month/Day/Year)

6. Individual or Joint/Group

Filing(Check Applicable Line)

____X____ Form filed by One Reporting
Person____ Form filed by More than One
Reporting Person**Table I - Non-Derivative Securities Beneficially Owned**

1. Title of Security

(Instr. 4)

2. Amount of Securities

Beneficially Owned

(Instr. 4)

3.

Ownership

Form:

Direct (D)

or Indirect

(I)

(Instr. 5)

4. Nature of Indirect Beneficial

Ownership

(Instr. 5)

Common Stock, par value \$0.01 per share

5,000,000

I

By Corporation ⁽¹⁾Reminder: Report on a separate line for each class of securities beneficially
owned directly or indirectly.

SEC 1473 (7-02)

**Persons who respond to the collection of
information contained in this form are not
required to respond unless the form displays a
currently valid OMB control number.****Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

1. Title of Derivative Security

(Instr. 4)

2. Date Exercisable and

Expiration Date

(Month/Day/Year)

3. Title and Amount of

Securities Underlying

Derivative Security

(Instr. 4)

Title

4.

Conversion

or Exercise

Price of

Derivative

Security

5.

Ownership

Form of

Derivative

Security:

Direct (D)

6. Nature of Indirect

Beneficial Ownership

(Instr. 5)

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Date Exercisable	Expiration Date	Amount or Number of Shares	or Indirect (I) (Instr. 5)
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Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
GLAXOSMITHKLINE PLC 980 GREAT WEST ROAD BRENTFORD MIDDLESEX, X0 TW8 9GS	Â	Â X	Â	Â

Signatures

/s/ Simon Dingemans, Chief Financial Officer 09/21/2012

Signature of Reporting Person

Date

Explanation of Responses:

* If the form is filed by more than one reporting person, *see* Instruction 5(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

(1) Shares of Common Stock are held of record by Glaxo Group Limited, which is a wholly-owned subsidiary of Reporting Person.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure.

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