

Radius Health, Inc.
Form 3
May 27, 2011

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

OMB APPROVAL

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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 * | | | 2. Date of Event Requiring Statement | | 3. Issuer Name and Ticker or Trading Symbol | |
| Â WELLCOME TRUST LTD | | | (Month/Day/Year) | | Radius Health, Inc. [NONE] | |
| (Last) | (First) | (Middle) | 05/17/2011 | | 4. Relationship of Reporting Person(s) to Issuer | |
| 215 EUSTON ROAD | | | | | 5. If Amendment, Date Original Filed(Month/Day/Year) | |
| (Street) | | | | | (Check all applicable) | |
| LONDON NW1 2BEÂ UK | | | | | 6. Individual or Joint/Group Filing(Check Applicable Line) | |
| (City) | (State) | (Zip) | | | <input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer <input type="checkbox"/> Other (give title below) (specify below) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> 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) |
|------------------------------------|--|---|--|

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) | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
| | Date Exercisable Expiration Date | Title Amount or Number of Shares | | | |

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| | | | | | | | |
|--|------------|-------|--------------|-----------|--------|---|--------------|
| Series A-1 Convertible Preferred Stock | 05/17/2011 | Â (1) | Common Stock | 255,220 | \$ (1) | I | By trust (2) |
| Series A-2 Convertible Preferred Stock | 05/17/2011 | Â (3) | Common Stock | 2,103,250 | \$ (3) | I | By trust (2) |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| WELLCOME TRUST LTD 215 EUSTON ROAD LONDON NW1 2BE UK | Â | Â X | Â | Â |

Signatures

/s/ Peter Pereira
Gray

05/27/2011

**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) The Series A-1 convertible preferred stock is convertible into common stock at any time on a one-for-ten basis, and has no expiration date.
- (2) These shares are owned directly by The Wellcome Trust Limited (the "Trustee"), a ten percent owner of the issuer, as trustee of The Wellcome Trust, and indirectly by The Wellcome Trust.
- (3) The Series A-2 convertible preferred stock is convertible into common stock at any time on a one-for-ten basis, and has no expiration date.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.