

Radius Health, Inc.
Form 4
December 16, 2011

FORM 4

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

OMB APPROVAL

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STATEMENT OF CHANGES IN 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 *
WELLCOME TRUST LTD (THE)
as trustee of the **WELLCOME TRUST**

(Last) (First) (Middle)

215 EUSTON ROAD

(Street)

LONDON, X0 NW1 2BE

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
Radius Health, Inc. [NONE]

3. Date of Earliest Transaction (Month/Day/Year)
12/14/2011

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

___ Director ___X___ 10% Owner
___ Officer (give title below) ___ Other (specify below)

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 Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|
| | | | | (A) or (D) | Amount | | |
| | | | | Code | V | | Price |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) |
|--|------------------------------------|--------------------------------------|--|--------------------------------|---|--|---|
|--|------------------------------------|--------------------------------------|--|--------------------------------|---|--|---|

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| Derivative Security | | | or Disposed of (D) (Instr. 3, 4, and 5) | | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
|--|-----|------------|---|-----------|------------------|-----------------|--------------|----------------------------|
| | | | Code | V (A) (D) | | | | |
| Series A-1 Convertible Preferred Stock | (1) | 12/14/2011 | P | 25,522 | 12/14/2011 | (1) | Common Stock | 255,220 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| WELLCOME TRUST LTD (THE) as trustee of the WELLCOME TRUST 215 EUSTON ROAD LONDON, X0 NW1 2BE | | | X | |

Signatures

/s/ ALAN LYNCH AUTHORIZED SIGNATORY 12/16/2011

__Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(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, a ten percent owner of the issuer, as trustee of The Wellcome Trust, and indirectly by The Wellcome Trust.

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.