

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					(Check all applicable)	
(Street)					<input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer <input type="checkbox"/> Other (give title below)    (specify below)	
LONDON NW1 2BEÂ UK					5. If Amendment, Date Original Filed(Month/Day/Year)	
(City)	(State)	(Zip)			6. Individual or Joint/Group Filing(Check Applicable Line)	
					<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)
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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.