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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No.)*

NuCana plc (Name of Issuer)

Common Shares (Title of Class of Securities)

67022C106 (CUSIP Number)

December 31, 2018 (Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed: [X] Rule 13d-1(b)

[] Rule 13d-1(c)

[] Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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- NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Capital Research Global Investors **
- 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a)

(b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5 SOLE VOTING POWER

3,170,352

6 SHARED VOTING POWER

NUMBER OF SHARES BENEFICIALL

NONE

Y OWNED BY

7 SOLE DISPOSITIVE POWER

EACH REPORTING

3,170,352

PERSON WITH:

8 SHARED DISPOSITIVE POWER

NONE

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,170,352

Beneficial ownership disclaimed pursuant to Rule

13d-4

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

10.0%

12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IΑ

** A division of Capital Research and Management Company (CRMC)

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SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

Schedule 13G Under the Securities Exchange Act of 1934

Amendment No.

Item 1(a) Name of Issuer:

NuCana plc

Item 1(b) Address of Issuer's Principal Executive Offices:

3 Lochside Way Edinburgh EH12 9DT United Kingdom

Item 2(a) Name of Person(s) Filing:

Capital Research Global Investors

Item 2(b) Address of Principal Business Office or, if none,

Residence:

333 South Hope Street Los Angeles, CA 90071

Item 2(c) Citizenship: N/A

Item 2(d) Title of Class of Securities:

Common Shares

Item 2(e) CUSIP Number:

67022C106

Item 3 If this statement is filed pursuant to sections 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

(e) [X] An investment adviser in accordance with section 240.13d-1(b)(1)(ii)(E).

Item 4 Ownership

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned:
- (b) Percent of class:
- (c) Number of shares as to which the person has:
- (i) Sole power to vote or to direct the vote:
- (ii) Shared power to vote or to direct the vote:
- (iii) Sole power to dispose or to direct the disposition of:
- (iv) Shared power to dispose or to direct the disposition of:

See page 2

Capital Research Global Investors divisions of CRMC is deemed to be the beneficial owner of 3,170,352 shares or 10% of the 31,811,146 shares believed to be outstanding.

All of the shares reported are held in the form of American Depositary Shares, which each represent 1 Ordinary Share.

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Item 5 Ownership of Five Percent or Less of a Class. If this
 statement is being filed to report the fact that as of the date
 hereof the reporting person has ceased to be the beneficial
 owner of more than five percent of the class of securities,
 check the following: []

Item 6 Ownership of More than Five Percent on Behalf of Another Person: One or more clients of Capital Research Global Investors have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the Common Shares of NuCana plc. Capital Research Global Investors holds more than five percent of the outstanding Common Shares of NuCana plc as of December 31, 2018 on behalf of each of the following client(s):

American Funds Insurance Series Global Small Capitalization Fund

- Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person: N/A
- Item 8 Identification and Classification of Members of the Group: $\ensuremath{\mathsf{N/A}}$
- Item 9 Notice of Dissolution of Group: N/A

Item 10 Certification

By signing below, I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 13, 2019

Signature: /s/ Donald H. Rolfe

Name/Title: Donald H. Rolfe - Senior Vice President

and Senior Counsel, Fund Business

Management Group

Capital Research and Management Company

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