| Form SC 13G February 14, 2017 |
|---|
| SCHEDULE 13G |
| SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549 |
| Under the Securities Exchange Act of 1934 (Amendment No.)* |
| Amarin Corporation plc (Name of Issuer) |
| American Depositary Shares, each representing one Ordinary Share, 50 pence par value per share (Title of Class of Securities) |
| 023111206 (CUSIP Number) |
| December 31, 2016 (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 disclosures provided in a prior cover page.

The information required on 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 (the "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).

Page 1 of 10 Pages

NAMES OF REPORTING PERSONS

1

Baker Bros. Advisors LP

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a) "

2

(b) "

3SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION

4

Delaware

SOLE VOTING POWER

5

22,169,509

SHARED VOTING POWER

NUMBER OF SHARES 6 BENEFICIALLY

OWNED BY -0-

EACH SOLE DISPOSITIVE POWER

REPORTING

PERSON 7

WITH

22,169,509

SHARED DISPOSITIVE POWER

8

-0-

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES $10^{\left(\text{See Instructions}\right)}$

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

11

8.3% (1)

TYPE OF REPORTING PERSON (See Instructions)

12IA, PN

Based on 268,067,924 shares held as American Depositary Shares ("ADS"), each representing one Ordinary Share of (1) Amarin Corporation plc (the "Issuer") outstanding as of November 1, 2016 as reported in the Issuer's Form 10-Q filed with the SEC on November 3, 2016.

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NAMES OF REPORTING PERSONS

1

Baker Bros. Advisors (GP) LLC

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a) "

2

(b) "

3SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION

4

Delaware

SOLE VOTING POWER

5

22,169,509

SHARED VOTING POWER

NUMBER OF SHARES 6 BENEFICIALLY

OWNED BY -0-

EACH SOLE DISPOSITIVE POWER

REPORTING

PERSON 7

WITH

22,169,509

SHARED DISPOSITIVE POWER

8

-0-

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES $10^{\left(\text{See Instructions}\right)}$

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

11

8.3% (1)

TYPE OF REPORTING PERSON (See Instructions)

12HC, OO

(1) Based on 268,067,924 shares held as ADS, each representing one Ordinary Share of the Issuer outstanding as of November 1, 2016 as reported in the Issuer's Form 10-Q filed with the SEC on November 3, 2016.

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NAMES OF REPORTING PERSONS

1

Felix J. Baker

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a) "

2

(b) "

3SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION

4

United States

SOLE VOTING POWER

5

22,169,509

SHARED VOTING POWER

NUMBER OF
SHARES 6
BENEFICIALLY
OWNED BY -0-

EACH SOLE DISPOSITIVE POWER

REPORTING

PERSON 7

WITH

22,169,509

SHARED DISPOSITIVE POWER

8

-0-

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES $10^{\left(\text{See Instructions}\right)}$

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

11

8.3% (1)

TYPE OF REPORTING PERSON (See Instructions)

12IN, HC

(1) Based on 268,067,924 shares held as ADS, each representing one Ordinary Share of the Issuer outstanding as of November 1, 2016 as reported in the Issuer's Form 10-Q filed with the SEC on November 3, 2016.

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NAMES OF REPORTING PERSONS

1

Julian C. Baker

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a) "

2

(b) "

3SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION

4

United States

SOLE VOTING POWER

5

22,169,509

SHARED VOTING POWER

NUMBER OF SHARES

BENEFICIALLY OWNED BY -0-

EACH SOLE DISPOSITIVE POWER

REPORTING

PERSON 7

WITH

22,169,509

SHARED DISPOSITIVE POWER

8

-0-

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES $10^{\left(\text{See Instructions}\right)}$

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

11

8.3% (1)

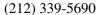
TYPE OF REPORTING PERSON (See Instructions)

12IN, HC

(1) Based on 268,067,924 shares held as ADS, each representing one Ordinary Share of the Issuer outstanding as of November 1, 2016 as reported in the Issuer's Form 10-Q filed with the SEC on November 3, 2016.

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| Schedule 13G |
|--|
| Item 1(a) Name of Issuer: |
| Amarin Corporation plc (the "Issuer") |
| Item 1(b) Address of Issuer's Principal Executive Offices: |
| 2 Pembroke House, Upper Pembroke Street 28-32 |
| Dublin 2, Ireland |
| Item 2(a) Name of Person Filing: |
| This Schedule 13G is being filed jointly by the Baker Bros. Advisors LP (the "Adviser"), Baker Bros. Advisors (GP) LLC (the "Adviser GP"), Felix J. Baker and Julian C. Baker (collectively, the "Reporting Persons"). |
| Item 2(b) Address of Principal Business Office or, if None, Residence: |
| The business address of each of the Reporting Persons is: |
| c/o Baker Bros. Advisors LP |
| 667 Madison Avenue, 21st Floor |
| New York, NY 10065 |



Item 2(c) Citizenship:

The Adviser is a limited partnership organized under the laws of the State of Delaware. The Adviser GP is a limited liability company organized under the laws of the State of Delaware. The citizenship of each of Julian C. Baker and Felix J. Baker is the United States of America.

Item 2(d) Title of Class of Securities

American Depositary Shares ("ADS"), each representing one Ordinary Share, 50 pence par value per share

Item 2(e) CUSIP Number

023111206

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| Item 3. If this statement is filed pursuant to §§240.13d-1(b) or (c), check whether the person filing is a: |
|--|
| (a) "Broker or dealer registered under Section 15 of the Exchange Act. |
| (b) "Bank as defined in section 3(a)(6) of the Exchange Act. |
| (c) "Insurance company as defined in section 3(a)(19) of the Exchange Act. |
| (d) "Investment company registered under section 8 of the Investment Company Act of 1940. |
| (e) x An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E). |
| (f) "An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F). |
| (g) x A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G). |
| (h) "A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act. |
| (i) "A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940. |
| (j) "Group, in accordance with Rule 13d-1(b)(1)(ii)(J). |
| |

Item 4. Ownership.

Items 5 through 9 and 11 of each of the cover pages to this Schedule 13G are incorporated herein reference. Set forth below is the aggregate number of ADS as well as ADS that may be acquired upon conversion of the Series A Preference Shares ("Series A Preferred"), directly held by each of Baker Brothers Life Sciences, L.P. ("Life Sciences") and 667, L.P. ("667", and together with Life Sciences, the "Funds"), subject to the limitation on conversion described below. The Series A Preferred are convertible into ADS on a 10 for 1 basis and have no voting rights. The information set forth below is based upon 268,067,924 ADS, each representing one Ordinary Share outstanding as of November 1, 2016, as reported in the Issuer's 10-Q filed with the SEC on November 3, 2016. Such percentage figures are calculated in accordance with Rule 13d-3 under the Securities Exchange Act of 1934, as amended.

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| | Number of ADS we own or | Percent of | |
|------------------------------------|---------------------------|-------------|---|
| Name | have the right to acquire | Class | |
| | within 60 days | Outstanding | 3 |
| 667, L.P. | 3,667,891 | 1.4 | % |
| Baker Brothers Life Sciences, L.P. | 18,501,618 | 6.9 | % |
| Total | 22,169,509 | 8.3 | % |

The Series A Preferred is only exercisable to the extent that the holders thereof together with their affiliates would beneficially own, for purposes of Section 13(d) of the Securities Exchange Act of 1934, as amended, no more than 4.99% of the outstanding Ordinary Shares or of the Issuer after conversion ("Beneficial Ownership Limitation"). As a result of this restriction, the number of shares that may be issued upon conversion of the Series A Preferred by the above holders may change depending upon changes in the outstanding shares. By written notice to the Issuer, the Funds may from time to time increase or decrease the Beneficial Ownership Limitation applicable to that Fund to any other percentage not in excess of 19.9%. Any such increase will not be effective until the 61st day after such notice is delivered to the Issuer.

Pursuant to the management agreements, as amended, among the Adviser, the Funds and their respective general partners, the Funds' respective general partners relinquished to the Adviser all discretion and authority with respect to the investment and voting power of the securities held by the Funds, and thus the Adviser has complete and unlimited discretion and authority with respect to the Funds' investments and voting power over investments.

The Adviser GP, Felix J. Baker and Julian C. Baker as principals of the Adviser GP, and the Adviser may be deemed to be beneficial owners of securities of the Issuer directly held by the Funds, and may be deemed to have the power to vote or direct the vote of and the power to dispose or direct the disposition of such securities.

The Reporting Persons disclaim beneficial ownership of the securities held by each of the Funds, and this Schedule 13G shall not be deemed an admission that the Reporting Persons are the beneficial owners of such securities for purposes of Section 13(d) or for any other purpose.

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 ". N/A

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

The information in Item 4 is incorporated herein by reference.

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| Item Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person. |
|---|
| The information in Item 4 is incorporated herein by reference. |
| Item 8. Identification and Classification of Members of the Group. |
| 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. |
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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.

February 14, 2017

BAKER BROS. ADVISORS LP

By: Baker Bros. Advisors (GP) LLC, its general partner

By:/s/ Scott L. Lessing Name: Scott L. Lessing

Title: President

BAKER BROS. ADVISORS (GP) LLC

By:/s/ Scott L. Lessing Name: Scott L. Lessing

Title: President

/s/ Julian C. Baker Julian C. Baker

/s/ Felix J. Baker Felix J. Baker

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