

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No. 1)\*

Mesoblast Limited  
(Name of Issuer)

Ordinary Shares  
(Title of Class of Securities)

B04SF48  
(CUSIP Number)

December 30, 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:

- 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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1 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)

3 SEC USE ONLY (b)

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5 SOLE VOTING POWER

30,364,000

6 SHARED VOTING POWER

NONE

NUMBER OF  
SHARES  
BENEFICIAALLY  
OWNED BY

7 SOLE DISPOSITIVE POWER

30,364,000

EACH  
REPORTING  
PERSON  
WITH:

8 SHARED DISPOSITIVE POWER

NONE

9 AGGREGATE AMOUNT BENEFICIAALLY OWNED BY EACH REPORTING PERSON

30,364,000  
13d-4

Beneficial ownership disclaimed pursuant to Rule

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

7.9%

12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IA

\*\* 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. 1

Item 1(a) Name of Issuer:  
Mesoblast Limited

Item 1(b) Address of Issuer's Principal Executive Offices:  
55 Collins Street, Level 38  
Melbourne, VIC  
Australia 3000

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:  
Ordinary Shares

Item 2(e) CUSIP Number:  
B04SF48

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)  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 is deemed to be the beneficial owner of 30,364,000 shares or 7.9% of the 381,654,048 shares believed to be outstanding as a result of CRMC acting as investment adviser to various investment companies registered under Section 8 of the Investment Company Act of 1940.

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Shares reported include 452,800 American Depositary Shares, which represent 2,264,000 ordinary shares.

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 Ordinary Shares of Mesoblast Limited. Capital Research Global Investors holds more than five percent of the outstanding Ordinary Shares of Mesoblast Limited as of December 30, 2016 on behalf of each of the following client(s):

The New Economy 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: 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 10, 2017

Signature: Timothy D. Armour\*\*\*  
Name/Title: Timothy D. Armour - Partner  
Capital Research Global Investors

\*\*\*By /s/ Liliane Corzo  
Liliane Corzo  
Attorney-in-fact

Signed pursuant to a Power of Attorney dated January 6, 2017 included as an Exhibit to Schedule 13G filed with the Securities and Exchange Commission by Capital Research Global Investors on January 10, 2017 with respect to Sprouts Farmers Market, Inc.

