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**SECURITIES AND EXCHANGE COMMISSION**  
WASHINGTON, D.C. 20549

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**SCHEDULE 13G**

(Rule 13d-102)

**INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO § 240.13d-1  
(b), (c) AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO § 240.13d-2**

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**Replimune Group, Inc.**

(Name of Issuer)

**Common Stock**  
(Title of Class of Securities)

**76029N106**  
(CUSIP Number)

**June 22, 2018**  
(Date of Event Which Requires Filing of this Statement)

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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 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 ("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 <b>Omega Fund IV, L.P.</b>	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION <b>Cayman Islands</b>	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER <b>0</b>
	6	SHARED VOTING POWER <b>5,103,455</b>
	7	SOLE DISPOSITIVE POWER <b>0</b>
	8	SHARED DISPOSITIVE POWER <b>5,103,455</b>
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON <b>5,103,455</b>	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 <b>16.2% (2)</b>	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) <b>PN</b>	

- (1) This Schedule 13G is filed by Omega Fund IV, L.P. (“Omega Fund”), Omega Fund IV GP, L.P. (“Omega GP”), Omega Fund IV GP Manager, Ltd. (“Omega Ltd”), Richard Lim (“Lim”), Otello Stampacchia (“Stampacchia”), and Anne-Mari Paster (“Paster”) (together, the “Reporting Persons”). Omega Ltd serves as the general partner of Omega GP, which serves as the general partner of Omega Fund; and each of Omega Ltd and Omega GP may be deemed to own beneficially the shares held by Omega Fund. Lim, Stampacchia, and Paster are the directors of Omega Ltd and may be deemed to beneficially own the shares held by Omega Fund. The Reporting Persons may be deemed a “group” for purposes of Section 13 of the Exchange Act and expressly disclaim status as a “group” for purposes of this Schedule 13G.
- (2) The following percentages are based on 31,553,672 shares of Common Stock outstanding, as reported on the 10-Q filed with the Securities and Exchange Commission by the Issuer on November 14, 2018.

1	NAMES OF REPORTING PERSONS <b>Omega Fund IV GP, L.P.</b>	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION <b>Cayman Islands</b>	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER <b>0</b>
	6	SHARED VOTING POWER <b>5,103,455</b>
	7	SOLE DISPOSITIVE POWER <b>0</b>
	8	SHARED DISPOSITIVE POWER <b>5,103,455</b>
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON <b>5,103,455</b>	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 <b>16.2% (2)</b>	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) <b>PN</b>	

- (1) This Schedule 13G is filed by Omega Fund IV, L.P. (“Omega Fund”), Omega Fund IV GP, L.P. (“Omega GP”), Omega Fund IV GP Manager, Ltd. (“Omega Ltd”), Richard Lim (“Lim”), Otello Stampacchia (“Stampacchia”), and Anne-Mari Paster (“Paster”) (together, the “Reporting Persons”). Omega Ltd serves as the general partner of Omega GP, which serves as the general partner of Omega Fund; and each of Omega Ltd and Omega GP may be deemed to own beneficially the shares held by Omega Fund. Lim, Stampacchia, and Paster are the directors of Omega Ltd and may be deemed to beneficially own the shares held by Omega Fund. The Reporting Persons may be deemed a “group” for purposes of Section 13 of the Exchange Act and expressly disclaim status as a “group” for purposes of this Schedule 13G.
- (2) The following percentages are based on 31,553,672 shares of Common Stock outstanding, as reported on the 10-Q filed with the Securities and Exchange Commission by the Issuer on November 14, 2018.

1	NAMES OF REPORTING PERSONS <b>Omega Fund IV GP Manager, Ltd.</b>	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION <b>Cayman Islands</b>	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER <b>0</b>
	6	SHARED VOTING POWER <b>5,103,455</b>
	7	SOLE DISPOSITIVE POWER <b>0</b>
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9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON <b>5,103,455</b>	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 <b>16.2% (2)</b>	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) <b>00</b>	

- (1) This Schedule 13G is filed by Omega Fund IV, L.P. (“Omega Fund”), Omega Fund IV GP, L.P. (“Omega GP”), Omega Fund IV GP Manager, Ltd. (“Omega Ltd”), Richard Lim (“Lim”), Otello Stampacchia (“Stampacchia”), and Anne-Mari Paster (“Paster”) (together, the “Reporting Persons”). Omega Ltd serves as the general partner of Omega GP, which serves as the general partner of Omega Fund; and each of Omega Ltd and Omega GP may be deemed to own beneficially the shares held by Omega Fund. Lim, Stampacchia, and Paster are the directors of Omega Ltd and may be deemed to beneficially own the shares held by Omega Fund. The Reporting Persons may be deemed a “group” for purposes of Section 13 of the Exchange Act and expressly disclaim status as a “group” for purposes of this Schedule 13G.
- (2) The following percentages are based on 31,553,672 shares of Common Stock outstanding, as reported on the 10-Q filed with the Securities and Exchange Commission by the Issuer on November 14, 2018.

1	NAMES OF REPORTING PERSONS <b>Richard Lim</b>	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION <b>United States of America</b>	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER <b>0</b>
	6	SHARED VOTING POWER <b>5,103,455</b>
	7	SOLE DISPOSITIVE POWER <b>0</b>
	8	SHARED DISPOSITIVE POWER <b>5,103,455</b>
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON <b>5,103,455</b>	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 <b>16.2% (2)</b>	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) <b>IN</b>	

- (1) This Schedule 13G is filed by Omega Fund IV, L.P. (“Omega Fund”), Omega Fund IV GP, L.P. (“Omega GP”), Omega Fund IV GP Manager, Ltd. (“Omega Ltd”), Richard Lim (“Lim”), Otello Stampacchia (“Stampacchia”), and Anne-Mari Paster (“Paster”) (together, the “Reporting Persons”). Omega Ltd serves as the general partner of Omega GP, which serves as the general partner of Omega Fund; and each of Omega Ltd and Omega GP may be deemed to own beneficially the shares held by Omega Fund. Lim, Stampacchia, and Paster are the directors of Omega Ltd and may be deemed to beneficially own the shares held by Omega Fund. The Reporting Persons may be deemed a “group” for purposes of Section 13 of the Exchange Act and expressly disclaim status as a “group” for purposes of this Schedule 13G.
- (2) The following percentages are based on 31,553,672 shares of Common Stock outstanding, as reported on the 10-Q filed with the Securities and Exchange Commission by the Issuer on November 14, 2018.

1	NAMES OF REPORTING PERSONS <b>Otello Stampacchia</b>	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION <b>Italy</b>	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER <b>0</b>
	6	SHARED VOTING POWER <b>5,103,455</b>
	7	SOLE DISPOSITIVE POWER <b>0</b>
	8	SHARED DISPOSITIVE POWER <b>5,103,455</b>
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON <b>5,103,455</b>	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 <b>16.2% (2)</b>	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) <b>IN</b>	

- (1) This Schedule 13G is filed by Omega Fund IV, L.P. (“Omega Fund”), Omega Fund IV GP, L.P. (“Omega GP”), Omega Fund IV GP Manager, Ltd. (“Omega Ltd”), Richard Lim (“Lim”), Otello Stampacchia (“Stampacchia”), and Anne-Mari Paster (“Paster”) (together, the “Reporting Persons”). Omega Ltd serves as the general partner of Omega GP, which serves as the general partner of Omega Fund; and each of Omega Ltd and Omega GP may be deemed to own beneficially the shares held by Omega Fund. Lim, Stampacchia, and Paster are the directors of Omega Ltd and may be deemed to beneficially own the shares held by Omega Fund. The Reporting Persons may be deemed a “group” for purposes of Section 13 of the Exchange Act and expressly disclaim status as a “group” for purposes of this Schedule 13G.
- (2) The following percentages are based on 31,553,672 shares of Common Stock outstanding, as reported on the 10-Q filed with the Securities and Exchange Commission by the Issuer on November 14, 2018.

1	NAMES OF REPORTING PERSONS <b>Anne-Mari Paster</b>	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION <b>United States of America</b>	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER <b>0</b>
	6	SHARED VOTING POWER <b>5,103,455</b>
	7	SOLE DISPOSITIVE POWER <b>0</b>
	8	SHARED DISPOSITIVE POWER <b>5,103,455</b>
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON <b>5,103,455</b>	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 <b>16.2% (2)</b>	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) <b>IN</b>	

- (1) This Schedule 13G is filed by Omega Fund IV, L.P. (“Omega Fund”), Omega Fund IV GP, L.P. (“Omega GP”), Omega Fund IV GP Manager, Ltd. (“Omega Ltd”), Richard Lim (“Lim”), Otello Stampacchia (“Stampacchia”), and Anne-Mari Paster (“Paster”) (together, the “Reporting Persons”). Omega Ltd serves as the general partner of Omega GP, which serves as the general partner of Omega Fund; and each of Omega Ltd and Omega GP may be deemed to own beneficially the shares held by Omega Fund. Lim, Stampacchia, and Paster are the directors of Omega Ltd and may be deemed to beneficially own the shares held by Omega Fund. The Reporting Persons may be deemed a “group” for purposes of Section 13 of the Exchange Act and expressly disclaim status as a “group” for purposes of this Schedule 13G.
- (2) The following percentages are based on 31,553,672 shares of Common Stock outstanding, as reported on the 10-Q filed with the Securities and Exchange Commission by the Issuer on November 14, 2018.

Introductory Note: This statement on Schedule 13G is filed on behalf of the Reporting Persons, in respect of shares of Common Stock ("Common Stock"), of Replimune Group, Inc. (the "Issuer").

**Item 1(a) Name of Issuer:**

Replimune Group, Inc. (the "Issuer")

**Item 1(b) Address of Issuer's principal executive offices:**

Replimune Group, Inc.  
18 Commerce Way  
Woburn, MA 01801

**Items 2(a) Name of Reporting Persons filing:**

Omega Fund IV, L.P. ("Omega Fund")  
Omega Fund IV GP, L.P. ("Omega GP")  
Omega Fund IV GP Manager, Ltd. ("Omega Ltd")  
Richard Lim ("Lim")  
Otello Stampacchia ("Stampacchia")  
Anne-Mari Paster ("Paster")

**Item 2(b) Address or principal business office or, if none, residence:**

The address of the principal business office of Omega Fund, Omega GP, Omega Ltd, Lim, Stampacchia, and Paster, is c/o Omega Fund Management, LLC, 185 Dartmouth Street, Suite 502, Boston, MA 02116.

**Item 2(c) Citizenship:**

<u>Name</u>	<u>Citizenship or Place of Organization</u>
Omega Fund	Cayman Islands
Omega GP	Cayman Islands
Omega Ltd	Cayman Islands
Lim	United States of America
Stampacchia	Italy
Paster	United States of America

**Item 2(d) Title of class of securities:**

Common Stock

**Item 2(e) CUSIP No.:**

76029N106

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

Not applicable.

**Item 4 Ownership**

The following information with respect to the ownership of Common Stock of the Issuer by the Reporting Persons filing this statement on Schedule 13G is provided as of February 13, 2019.



<b>Reporting Persons</b>	<b>Shares of Common Stock Held Directly</b>	<b>Sole Voting Power</b>	<b>Shared Voting Power</b>	<b>Sole Dispositive Power</b>	<b>Shared Dispositive Power</b>	<b>Beneficial Ownership</b>	<b>Percentage of Class (1)</b>
Omega Fund(2)(3)	5,103,455	0	5,103,455	0	5,103,455	5,103,455	16.2%
Omega GP(2)(3)	0	0	5,103,455	0	5,103,455	5,103,455	16.2%
Omega Ltd(2)(3)	0	0	5,103,455	0	5,103,455	5,103,455	16.2%
Lim (2)(3)	0	0	5,103,455	0	5,103,455	5,103,455	16.2%
Stampacchia(2)(3)	0	0	5,103,455	0	5,103,455	5,103,455	16.2%
Paster(2)(3)	0	0	5,103,455	0	5,103,455	5,103,455	16.2%

- (1) The following percentages are based on 31,553,672 shares of Common Stock outstanding, as reported on the 10-Q filed with the Securities and Exchange Commission by the Issuer on November 14, 2018.
- (2) Omega Fund owns 5,103,455 shares of Common Stock. Omega Ltd serves as the general partner of Omega GP, which serves as the general partner of Omega Fund, and each of Omega GP and Omega Ltd may be deemed to own beneficially the shares held by Omega Fund. Lim, Stampacchia, and Paster are the directors of Omega Ltd and may be deemed to beneficially own the shares held by Omega Fund.
- (3) The Reporting Persons may be deemed a “group” for purposes of Section 13 of the Exchange Act and expressly disclaim status as a “group” for purposes of this Schedule 13G.

**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**

If this statement is being filed to report the fact that as of the date hereof, the Reporting Persons have ceased to be the beneficial owner of more than five percent of the class of securities, check the following:

**Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person**

Not applicable.

**Item 8 Identification and Classification of Members of the Group**

Not applicable.

**Item 9 Notice of Dissolution of Group**

Not applicable.

**Item 10 Certifications**

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above 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, other than activities solely in connection with a nomination under Rule 14a-11.

**SIGNATURES**

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.

Dated: February 13, 2019

OMEGA FUND IV, L.P.

BY: Omega Fund IV GP, L.P.  
ITS: GENERAL PARTNER

BY: Omega Fund IV GP Manager, Ltd.  
ITS: GENERAL PARTNER

By: /s/ Anne-Mari Paster  
Director

OMEGA FUND IV GP, L.P

BY: Omega Fund IV GP Manager, Ltd.  
ITS: GENERAL PARTNER

By: /s/ Anne-Mari Paster  
Director

OMEGA FUND IV GP MANAGER, LTD.

By: /s/ Anne-Mari Paster  
Director

\*

Richard Lim

\*

Otello Stampacchia

/s/ Anne-Mari Paster

Anne-Mari Paster, as Attorney-in-Fact, pursuant to that Power of Attorney filed with the Securities and Exchange Commission on July 19, 2018 in connection with a Form 3 filing for Replimune Group, Inc., which power of attorney is incorporated herein by reference.\*

**Exhibit(s):**

Exhibit 99.1: Joint Filing Statement

AGREEMENT

Pursuant to Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended, the undersigned hereby agree that only one statement containing the information required by Schedule 13G need be filed with respect to the ownership by each of the undersigned of Common Stock of Replimune Group, Inc.

Dated: February 13, 2019

OMEGA FUND IV, L.P.

BY: Omega Fund IV GP, L.P.  
ITS: GENERAL PARTNER

BY: Omega Fund IV GP Manager, Ltd.  
ITS: GENERAL PARTNER

By: /s/ Anne-Mari Paster  
Director

OMEGA FUND IV GP, L.P

BY: Omega Fund IV GP Manager, Ltd.  
ITS: GENERAL PARTNER

By: /s/ Anne-Mari Paster  
Director

OMEGA FUND IV GP MANAGER, LTD.

By: /s/ Anne-Mari Paster  
Director

\*  
Richard Lim

\*  
Otello Stampacchia

/s/ Anne-Mari Paster

Anne-Mari Paster, as Attorney-in-Fact, pursuant to that Power of Attorney filed with the Securities and Exchange Commission on July 19, 2018 in connection with a Form 3 filing for Replimune Group, Inc., which power of attorney is incorporated herein by reference.\*