RXi Pharmaceuticals Corp Form SC 13G/A January 16, 2014

SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

SCHEDULE 13G/A

Under the Securities Exchange Act of 1934 (Amendment No. 1)*

RXi Pharmaceuticals Corporation (Name of Issuer)

Common Stock, par value \$0.0001 per share (Title of Class of Securities)

74979C303 (CUSIP Number)

December 31, 2013 (Date of Event Which Requires Filing of This Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
- ý Rule 13d-1(c)
- o 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).

CUSIP No. 74979C303 13G/A Page 2 of 8 Pages NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) TANG CAPITAL PARTNERS, LP 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) o **GROUP*** (b) x SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 **DELAWARE** 5 **SOLE VOTING POWER** 0 NUMBER OF SHARED VOTING POWER **SHARES BENEFICIALLY** 1,298,094 OWNED BY **SOLE DISPOSITIVE POWER EACH REPORTING** 7 PERSON WITH 8 SHARED DISPOSITIVE POWER 1,298,094 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING **PERSON** 1,298,094 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES **CERTAIN SHARES** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 11 9.9%

TYPE OF REPORTING PERSON

12

PN

CUSIP No. 74979C303 13G/A Page 3 of 8 Pages NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) TANG CAPITAL MANAGEMENT, LLC 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) o **GROUP*** (b) x SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 **DELAWARE** 5 **SOLE VOTING POWER** 0 NUMBER OF SHARED VOTING POWER **SHARES BENEFICIALLY** 1,298,094 OWNED BY **SOLE DISPOSITIVE POWER** EACH REPORTING 7 PERSON WITH 8 SHARED DISPOSITIVE POWER 1,298,094 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING **PERSON** 1,298,094 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES **CERTAIN SHARES** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 11 9.9%

TYPE OF REPORTING PERSON

12

00

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NAMES OF REPORTING PERSONSI.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

KEVIN C. TANG

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

(a) o (b) x

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

UNITED STATES

5 SOLE VOTING POWER

0

NUMBER OF

SHARES

6 SHARED VOTING POWER

BENEFICIALLY OWNED BY

1,298,094

EACH REPORTING PERSON WITH

SOLE DISPOSITIVE POWER

0

8 SHARED DISPOSITIVE POWER

1,298,094

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,298,094

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

••

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

9.9%

12 TYPE OF REPORTING PERSON

IN

I t e m Name of Issuer:

1(a).

RXi Pharmaceuticals Corporation, a Delaware corporation (the "Issuer")

Item Address of Issuer's Principal Executive Offices:

1(b).

1500 West Park Drive, Suite 210, Westborough, MA, 01581

I t e m Name of Person Filing:

2(a).

This Statement on Schedule 13G/A (this "Statement") is filed by Tang Capital Partners, LP ("Tang Capital Partners"); Tang Capital Management, LLC, the general partner of Tang Capital Partners ("Tang Capital Management"); and Kevin C. Tang, the manager of Tang Capital Management. Tang Capital Partners, Tang Capital Management and Kevin C. Tang shall hereinafter be referred to as the "Reporting Persons".

I t e m Address of Principal Business Office or, if none, Residence:

2(b).

4747 Executive Drive, Suite 510, San Diego, CA 92121

I t e m Citizenship:

2(c).

Tang Capital Partners is a Delaware limited partnership. Tang Capital Management is a Delaware limited liability company. Mr. Tang is a United States citizen.

I t e m Title of Class of Securities:

2(d).

Common Stock, par value \$0.0001 per share (the "Common Stock")

I t e m CUSIP Number: 74979C303

2(e).

Item 3. Not applicable.

Item 4. Ownership.

(a) Amount Beneficially Owned:

Tang Capital Partners. Tang Capital Partners is the beneficial owner of 1,289,799 shares of the Issuer's Common Stock, which is comprised of: 7,813.61 shares of the Issuer's Series A Convertible Preferred Stock, par value \$0.0001 per share (the "Series A Preferred") and 2,054.39 shares of the Issuer's Series A-1 Convertible Preferred Stock, par value \$0.0001 per share (the "Series A-1 Preferred").

Tang Capital Partners shares voting and dispositive power over such shares of Common Stock, Series A Preferred and Series A-1 Preferred with Tang Capital Management and Kevin C. Tang.

The Series A Preferred and Series A-1 Preferred can only be converted into Common Stock to the extent that, after such conversion, the holder would beneficially own no more than 9.999% of the Issuer's Common Stock.

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Tang Capital Management. Tang Capital Management, as the general partner of Tang Capital Partners, may be deemed to beneficially own the shares of the Issuer's Common Stock and preferred stock beneficially owned by Tang Capital Partners.

Kevin C. Tang. Kevin C. Tang, as manager of Tang Capital Management, may be deemed to beneficially own the shares of the Issuer's Common Stock and preferred stock beneficially owned by Tang Capital Partners.

Mr. Tang disclaims beneficial ownership of all shares reported herein except to the extent of his pecuniary interest therein.

The percentages used herein are based upon 12,982,247 shares of Common Stock outstanding (11,684,153 shares outstanding as of November 12, 2013 per the Quarterly Report on Form 10-Q as filed with the Securities and Exchange Commission on November 14, 2013, plus 1,298,094 shares of Common Stock issuable upon conversion of the Series A Preferred and Series A-1 Preferred).

(b) Percent of Class:

Tang Capital Partners	9.9%
Tang Capital Management	9.9%
Kevin C. Tang	9.9%

(c) Number of shares as to which such person has:

(i) sole power to vote or to direct the vote:

Tang Capital Partners	0 shares
Tang Capital Management	0 shares
Kevin C. Tang	0 shares

(ii) shared power to vote or to direct the vote:

Tang Capital Partners	1,298,094 shares
Tang Capital Management	1,298,094 shares
Kevin C. Tang	1,298,094 shares

(iii) sole power to dispose or to direct the disposition of:

Tang Capital Partners	0 shares
Tang Capital Management	0 shares
Kevin C. Tang	0 shares

(iv) shared power to dispose or to direct the disposition of:

Tang Capital Partners	1,298,094 shares
Tang Capital Management	1,298,094 shares
Kevin C. Tang	1,298,094 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: o

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

Not applicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.

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. Certification.

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.

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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.

Date: January 16, 2014

TANG CAPITAL PARTNERS, LP

By: Tang Capital Management, LLC, its General

Partner

By: /s/ Kevin C. Tang

Kevin C. Tang, Manager

TANG CAPITAL MANAGEMENT, LLC

By: /s/ Kevin C. Tang

Kevin C. Tang, Manager

/s/ Kevin C. Tang Kevin C. Tang

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