

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

SCHEDULE 13G  
Under the Securities Exchange Act of 1934

(Amendment No. 1)\*

SANGAMO BIOSCIENCES, INC.

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(Name of Issuer)

**Common Stock, par value \$0.01**

(Title of Class of Securities)

**800677106**

(CUSIP Number)

**December 31, 2012**

(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).

**RA Capital Management, LLC**

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

**Massachusetts**

Number of  
Shares  
Beneficially  
Owned by  
Each Reporting  
Person With

5. Sole Voting Power **3,835,776**

6. Shared Voting Power **0**

7. Sole Dispositive Power **3,835,776**

8. Shared Dispositive Power **0**

9. Aggregate Amount Beneficially Owned by Each Reporting Person  
**3,835,776**

10. Check if the Aggregate Amount in Row (9) Excludes  
Certain Shares (See Instructions)

11. Percent of Class Represented by Amount in Row (9)  
**7.2%**

12. Type of Reporting Person (See Instructions)

**IA**

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1. Names of Reporting Persons.  
I.R.S. Identification Nos. of above persons (entities only).

**Peter Kolchinsky**

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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 **United States**
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Number of Shares Beneficially Owned by Each Reporting Person With	5. Sole Voting Power	<b>3,835,776</b>
	6. Shared Voting Power	<b>0</b>
	7. Sole Dispositive Power	<b>3,835,776</b>
	8. Shared Dispositive Power	<b>0</b>

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9. Aggregate Amount Beneficially Owned by Each Reporting Person  
**3,835,776**
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10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)
- 

11. Percent of Class Represented by Amount in Row (9)  
**7.2%**
- 

12. Type of Reporting Person (See Instructions)  
**IN**
- 
-

1. Names of Reporting Persons.  
I.R.S. Identification Nos. of above persons (entities only).

**RA Capital Healthcare Fund, L.P.**

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**

Number of  
Shares  
Beneficially  
Owned by  
Each Reporting  
Person With

5. Sole Voting Power **2,276,796**

6. Shared Voting Power **0**

7. Sole Dispositive Power **2,276,796**

8. Shared Dispositive Power **0**

9. Aggregate Amount Beneficially Owned by Each Reporting Person  
**2,276,796**

10. Check if the Aggregate Amount in Row (9) Excludes  
Certain Shares (See Instructions)

11. Percent of Class Represented by Amount in Row (9)  
**4.3%**

12. Type of Reporting Person (See Instructions)  
**PN**

**Item 1.**

- (a) **Name of Issuer:** Sangamo Biosciences, Inc. (the "Issuer").
- (b) **Address of the Issuer's Principal Executive Offices:** 501 Canal Blvd, Richmond, California 94804.

**Item 2.**

- (a) **Name of Person Filing:** This joint statement on Schedule 13G is being filed by Peter Kolchinsky, RA Capital Management, LLC, and RA Capital Healthcare Fund, L.P., who are collectively referred to herein as the "Reporting Persons." Mr. Kolchinsky (the "Manager") is the manager of RA Capital Management, LLC ("Capital"), which is the investment adviser and sole general partner of RA Capital Healthcare Fund, L.P. ("Fund") and serves as the investment adviser to a separate discretionary account. The Reporting Persons have entered into a Joint Filing Agreement, dated as of the date hereof, a copy of which is filed with this Schedule 13G as Exhibit 1 (which is incorporated herein by reference), pursuant to which the Reporting Persons have agreed to file this statement jointly in accordance with the provisions of Rule 13d-1(k) under the Act.
- (b) **Address of Principal Business Office:** The principal business office of the Reporting Persons with respect to the shares reported hereunder is 20 Park Plaza, Suite 1200, Boston, MA 02116.
- (c) **Citizenship:** Capital is a Massachusetts limited liability company. The Fund is a Delaware limited partnership. The Manager is a United States citizen.
- (d) **Title and Class of Securities:** Common stock ("Common Stock").
- (e) **CUSIP Number:** 800677106.

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

Not applicable.

**Item 4. Ownership:**

As of January 31, 2013, the Reporting Persons, in the aggregate, beneficially own 3,835,776 shares of the Common Stock of the Issuer, representing approximately 7.2% of such class of securities. The beneficial ownership of each Reporting Person is as follows: (i) Fund beneficially owns 2,276,796 shares of Common Stock, representing approximately 4.3% of the class and (ii) Capital, as the investment adviser and sole general partner of the Fund and investment adviser to an account owned by a separate investment vehicle which holds shares of the Issuer's Common Stock, and Mr. Kolchinsky as the manager of Capital, each beneficially own 3,835,776 shares of Common Stock of the Issuer, representing approximately 7.2% of the class. The percentage of Common Stock beneficially owned by each Reporting Person is based on a total of 52,988,561 shares of the Common Stock of the Issuer outstanding as reported on the Issuer's Form 10-Q filed with the SEC on November 02, 2012.

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The Fund has the power to vote and dispose of the shares of Common Stock beneficially owned by such entity (as described above). Capital, as the investment adviser and sole general partner of the Fund and as the investment adviser to an account owned by a separate investment vehicle which holds shares of the Issuer's Common Stock, has the sole authority to vote and dispose of all of the shares of Common Stock reported in this Schedule 13G. The Manager, by virtue of his position as manager of Capital, has the sole authority to vote and dispose of all of the shares of Common Stock reported in this Schedule 13G.

**Item 5. Ownership of Five Percent or Less of a Class:**

Not applicable.

**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 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. Certification:**

By signing below I hereby 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: FEBRUARY 14, 2013

RA CAPITAL HEALTHCARE FUND, L.P.

By: RA Capital Management, LLC  
General Partner

By: /s/ Peter Kolchinsky

Peter Kolchinsky  
Manager

RA CAPITAL MANAGEMENT, LLC

By: /s/ Peter Kolchinsky

Peter Kolchinsky  
Manager

PETER KOLCHINSKY

/s/ Peter Kolchinsky

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Exhibit 1

JOINT FILING AGREEMENT

Pursuant to Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended, the undersigned hereby agrees, as of February 14, 2013, that only one statement containing the information required by Schedule 13G, and each amendment thereto, need be filed with respect to the ownership by each of the undersigned of shares of Common Stock of Sangamo Biosciences, Inc., and such statement to which this Joint Filing Agreement is attached as Exhibit 1 is filed on behalf of each of the undersigned.

RA CAPITAL HEALTHCARE FUND, L.P.

By: RA Capital Management, LLC  
General Partner

By: /s/ Peter Kolchinsky  
Peter Kolchinsky  
Manager

RA CAPITAL MANAGEMENT, LLC

By: /s/ Peter Kolchinsky  
Peter Kolchinsky  
Manager

PETER KOLCHINSKY

/s/ Peter Kolchinsky

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