

APPLIED GENETIC TECHNOLOGIES CORP  
Form SC 13G  
August 20, 2015  
UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934  
(Amendment No. \_\_)

Applied Genetic Technologies Corporation  
(Name of Issuer)

Common Stock  
(Title of Class of Securities)

03820J100  
(CUSIP Number)

August 19, 2015  
(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 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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CUSIP No. 03820J100

NAME OF REPORTING PERSON: I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

1

Biogen Inc. 33-0112644

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

2

(a)

(b)

3

SEC USE ONLY

4

CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF  
SHARES

5

SOLE VOTING POWER

0

BENEFICIALLY  
OWNED BY

6

SHARED VOTING POWER

1,453,957 shares

EACH  
REPORTING

7

SOLE DISPOSITIVE POWER

0

PERSON

8

SHARED DISPOSITIVE POWER

WITH

1,453,957 shares

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING  
PERSON

9

1,453,957 shares

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

10

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

8.1%

TYPE OF REPORTING PERSON

12

CO

2

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CUSIP No. 03820J100

1 NAME OF REPORTING PERSON: I.R.S. IDENTIFICATION NO. OF ABOVE PERSON  
Biogen MA Inc. 04-3002117

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

2 (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  
0

6

SHARED VOTING POWER  
1,453,957 shares

7

SOLE DISPOSITIVE POWER  
0

8

SHARED DISPOSITIVE POWER  
1,453,957 shares

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,453,957 shares

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

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

8.1%

12 TYPE OF REPORTING PERSON

CO

3

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CUSIP No. 03820J100

Item 1(a). Name of Issuer:

Applied Genetic Technologies Corporation.

Item 1(b). Address of Issuer's Principal Executive Offices:

The principal business address of Applied Genetic Technologies Corporation is 11801 Research Dr., Suite D, Alachua, FL 32615

Item 2(a). Name of Person Filing:

This statement is being filed on behalf of Biogen Inc. and Biogen MA Inc.

Item 2(b). Address of Principal Business Office or, if None, Residence:

The principal business office of Biogen Inc. is 225 Binney Street, Cambridge, MA 02142 and the principal business office of Biogen MA Inc. is 250 Binney Street, Cambridge, Massachusetts 02142.

Item 2(c). Citizenship:

Biogen Inc. is a corporation organized under the laws of the State of Delaware. Biogen MA Inc. is a corporation organized under the laws of the Commonwealth of Massachusetts.

Item 2(d). Title of Class of Securities:

Common Stock

Item 2(e). CUSIP Number:

03820J100

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:

- (a)  Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o);
- (b)  Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);
- (c)  Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);
- (d)  Investment company registered under Section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);
- (e)  An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);
- (f)  An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);
- (g)  A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
- (h)  A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i)  A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act (15 U.S.C. 80a-3);
- (j)  A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J);
- (k)  Group, in accordance with §240.13d-1(b)(1)(ii)(K).

If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution:

CUSIP No. 03820J100

Item 4. Ownership.

4(a) Amount beneficially owned:

1,453,957

4(b) Percent of Class:

8.1%

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

(i) Sole power to vote or to direct the vote: 0

(ii) Shared power to vote or to direct the vote: 1,453,957

(iii) Sole power to dispose or to direct the disposition of: 0

(iv) Shared power to dispose or to direct the disposition of: 1,453,957

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.

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. 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.

CUSIP No. 03820J100

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.

BIOGEN INC.

By: /s/ Michael Dambach  
Name: Michael Dambach  
Title: Vice President, Treasurer

BIOGEN MA INC.

By: /s/ Michael Dambach  
Name: Michael Dambach  
Title: Vice President, Treasurer

Dated: August 19, 2015

CUSIP No. 03820J100

Exhibit A

JOINT FILING AGREEMENT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, each of the persons named below agrees to the joint filing of a Statement on Schedule 13G (including amendments thereto) with respect to the common stock, \$0.001 par value per share, of Applied Genetic Technologies Corporation, a Delaware corporation, and further agrees that this Joint Filing Agreement be included as an exhibit to such filings provided that, as contemplated by Section 13d-1(k)(1)(ii), no person shall be responsible for the completeness or accuracy of the information concerning the other persons making the filing, unless such person knows or has reason to believe that such information is inaccurate. This Joint Filing Agreement may be executed in any number of counterparts, all of which together shall constitute one and the same instrument.

Dated as of August 19, 2015

BIOGEN INC.

By: /s/ Michael Dambach  
Name: Michael Dambach  
Title: Vice President, Treasurer

BIOGEN MA INC.

By: /s/ Michael Dambach  
Name: Michael Dambach  
Title: Vice President, Treasurer