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

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

(Amendment No. \_\_)\*

Intrexon Corporation

(Name of Issuer)

Common Stock

(Title of Class of Securities)

46122T102

(CUSIP Number)

28 December 2018

(Date of Event Which Requires Filing of the 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.	NAME OF REPORTING PERSONS Ares Trading SA		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) (a) <input type="radio"/> (b) <input type="radio"/>		
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLACE OF ORGANIZATION Switzerland		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5.	SOLE VOTING POWER 24,080,139 <sup>1</sup>	
	6.	SHARED VOTING POWER 0	
	7.	SOLE DISPOSITIVE POWER 24,080,139 <sup>1</sup>	
	8.	SHARED DISPOSITIVE POWER 0	
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 24,080,139 <sup>1</sup>		
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="radio"/>		
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 14.7% <sup>2</sup>		
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) CO		

<sup>1</sup> The record holder of the securities covered by this Schedule 13G is Ares Trading SA

Ares Trading SA is a dominantly controlled subsidiary of Merck Serono SA, Coinsins, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany. Merck Serono SA, Coinsins, Switzerland is a wholly owned indirect subsidiary of Merck KGaA, Darmstadt, Germany. Merck KGaA, Darmstadt, Germany is a publicly traded company (Frankfurt Stock Exchange, DAX 30) and the beneficiary of the two companies.

Merck Serono SA, Coinsins, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany and Merck KGaA, Darmstadt, Germany may be deemed to possess sole voting and dispositive power with respect to the securities held of record by Ares Trading SA

<sup>2</sup> This percentage is based upon a denominator that is the sum of: (a) 159,893,384 shares of Common Stock outstanding as of December 28, 2018 (calculated by adding: (i) 137,221,526 shares of Common Stock outstanding as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2018; plus (ii) 1,933,737 shares of Common Stock issued in connection with the Issuer's acquisition ActoBio Therapeutics, Inc. as reported in the Issuer's Current Report on Form 8-K filed with the Securities and Exchange Commission on November 23, 2018; plus (iii) 77,594 shares and 20,408 shares of Common Stock issued in connection with a certain Services Agreement between the Issuer and Third Security, LLC and a certain Restricted Stock Unit Agreement between the Issuer and Randal J. Kirk, respectively, as reported in a Form 4 filed with the Securities and Exchange Commission on December 3, 2018; plus (iv) 20,640,119 shares of Common Stock issued to the Reporting Persons on December 28, 2018 pursuant to that certain Securities Purchase, Assignment and Assumption Agreement, dated as of December 19, 2018 (the "Purchase Agreement") by and among the Issuer, Ares Trading SA and Precigen, Inc., as reported in the Issuer's Current Reports on Form 8-K filed with the Securities and Exchange Commission on December 20, 2018 and December 31, 2018) and (b) 3,440,019 shares of Common Stock that may be acquired upon the conversion of a certain Convertible Note held by the Reporting Persons, assuming full conversion of the Convertible Note at an assumed conversion price of \$7.2674 per share as of December 28, 2018.

1.	NAME OF REPORTING PERSONS Merck Serono SA, Coinsins, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) (a) <input type="radio"/> (b) <input type="radio"/>		
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLACE OF ORGANIZATION Switzerland		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5.	SOLE VOTING POWER 24,080,139 <sup>3</sup>	
	6.	SHARED VOTING POWER 0	
	7.	SOLE DISPOSITIVE POWER 24,080,139 <sup>3</sup>	
	8.	SHARED DISPOSITIVE POWER 0	
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 24,080,139 <sup>3</sup>		
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="radio"/>		
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 14.7% <sup>4</sup>		
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) CO		

<sup>3</sup> The record holder of the securities covered by this Schedule 13G is Ares Trading SA

Ares Trading SA is a dominantly controlled subsidiary of Merck Serono SA, Coinsins, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany. Merck Serono SA, Coinsins, Switzerland is a wholly owned indirect subsidiary of Merck KGaA, Darmstadt, Germany. Merck KGaA, Darmstadt, Germany is a publicly traded company (Frankfurt Stock Exchange, DAX 30) and the beneficiary of the two companies.

Merck Serono SA, Coinsins, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany and Merck KGaA, Darmstadt, Germany may be deemed to possess sole voting and dispositive power with respect to the securities held of record by Ares Trading SA

<sup>4</sup> This percentage is based upon a denominator that is the sum of: (a) 159,893,384 shares of Common Stock outstanding as of December 28, 2018 (calculated by adding: (i) 137,221,526 shares of Common Stock outstanding as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2018; plus (ii) 1,933,737 shares of Common Stock issued in connection with the Issuer's acquisition ActoBio Therapeutics, Inc. as reported in the Issuer's Current Report on Form 8-K filed with the Securities and Exchange Commission on November 23, 2018; plus (iii) 77,594 shares and 20,408 shares of Common Stock issued in connection with a certain Services Agreement between the Issuer and Third Security, LLC and a certain Restricted Stock Unit Agreement between the Issuer and Randal J. Kirk, respectively, as reported in a Form 4 filed with the Securities and Exchange Commission on December 3, 2018; plus (iv) 20,640,119 shares of Common Stock issued to the Reporting Persons on December 28, 2018 pursuant to that certain Securities Purchase, Assignment and Assumption Agreement, dated as of December 19, 2018 (the "Purchase Agreement") by and among the Issuer, Ares Trading SA and Precigen, Inc., as reported in the Issuer's Current Reports on Form 8-K filed with the Securities and Exchange Commission on December 20, 2018 and December 31, 2018) and (b) 3,440,019 shares of Common Stock that may be acquired upon the conversion of a certain Convertible Note held by the Reporting Persons, assuming full conversion of the Convertible Note at an assumed conversion price of \$7.2674 per share as of December 28, 2018.

1.	NAME OF REPORTING PERSONS Merck KGaA, Darmstadt, Germany		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) (a) <input type="radio"/> (b) <input type="radio"/>		
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLACE OF ORGANIZATION Switzerland		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5.	SOLE VOTING POWER 24,080,139 <sup>5</sup>	
	6.	SHARED VOTING POWER 0	
	7.	SOLE DISPOSITIVE POWER 24,080,139 <sup>5</sup>	
	8.	SHARED DISPOSITIVE POWER 0	
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 24,080,139 <sup>5</sup>		
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="radio"/>		
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 14.7% <sup>6</sup>		
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) CO		

<sup>5</sup> The record holder of the securities covered by this Schedule 13G is Ares Trading SA

Ares Trading SA is a dominantly controlled subsidiary of Merck Serono SA, Coinsins, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany. Merck Serono SA, Coinsins, Switzerland is a wholly owned indirect subsidiary of Merck KGaA, Darmstadt, Germany. Merck KGaA, Darmstadt, Germany is a publicly traded company (Frankfurt Stock Exchange, DAX 30) and the beneficiary of the two companies.

Merck Serono SA, Coinsins, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany and Merck KGaA, Darmstadt, Germany may be deemed to possess sole voting and dispositive power with respect to the securities held of record by Ares Trading SA

<sup>6</sup> This percentage is based upon a denominator that is the sum of: (a) 159,893,384 shares of Common Stock outstanding as of December 28, 2018 (calculated by adding: (i) 137,221,526 shares of Common Stock outstanding as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2018; plus (ii) 1,933,737 shares of Common Stock issued in connection with the Issuer's acquisition ActoBio Therapeutics, Inc. as reported in the Issuer's Current Report on Form 8-K filed with the Securities and Exchange Commission on November 23, 2018; plus (iii) 77,594 shares and 20,408 shares of Common Stock issued in connection with a certain Services Agreement between the Issuer and Third Security, LLC and a certain Restricted Stock Unit Agreement between the Issuer and Randal J. Kirk, respectively, as reported in a Form 4 filed with the Securities and Exchange Commission on December 3, 2018; plus (iv) 20,640,119 shares of Common Stock issued to the Reporting Persons on December 28, 2018 pursuant to that certain Securities Purchase, Assignment and Assumption Agreement, dated as of December 19, 2018 (the "Purchase Agreement") by and among the Issuer, Ares Trading SA and Precigen, Inc., as reported in the Issuer's Current Reports on Form 8-K filed with the Securities and Exchange Commission on December 20, 2018 and December 31, 2018) and (b) 3,440,019 shares of Common Stock that may be acquired upon the conversion of a certain Convertible Note held by the Reporting Persons, assuming full conversion of the Convertible Note at an assumed conversion price of \$7.2674 per share as of December 28, 2018.

**Item 1(a). Name of Issuer:**  
Intrexon Corporation

**Item 1(b). Address of Issuer's Principal Executive Offices:**  
20374 Seneca Meadows Parkway  
Germantown, Maryland, 20876

**Item 2(a). Name of Person Filing:**  
This Schedule 13G is being filed by each of the following persons (each, a "Reporting Person" and together, the "Reporting Persons"):

Ares Trading SA  
Merck Serono SA, Coinsins, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany  
Merck KGaA, Darmstadt, Germany

The Reporting Persons have entered into a Joint Filing Agreement, a copy of which is filed with this Schedule 13G as Exhibit 99.1, pursuant to which the Reporting Persons have agreed to file this Schedule 13G jointly in accordance with the provisions of Rule 13.d-1(k) (l) of the Securities Exchange Act of 1934, as amended.

**Item 2(b). Address of Principal Business Office or, if none, Residence:**  
Ares Trading SA: Zone Industrielle de l'Outriettaz, 1170 Aubonne, Switzerland  
Merck Serono SA: Zone Industrielle, 1267 Coinsins, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany  
Merck KGaA: Frankfurter Strasse 250, 64293 Darmstadt, Germany

**Item 2(c). Citizenship:**  
The Reporting Persons Ares Trading SA and Merck Serono SA Coinsins, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany are organized in Switzerland. The Reporting Person Merck KGaA is organized in Darmstadt, Germany.

**Item 2(d). Title of Class of Securities:**  
Common Stock, no par value per share

**Item 2(e). CUSIP Number:**  
46122T102

**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

- (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).
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**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: 24,080,139<sup>7</sup>
- (b) Percent of class: 14.7%<sup>8</sup>
- (c) Number of shares as to which the person has:
  - (i) Sole power to vote or to direct the vote: 20,640,119<sup>7</sup>
  - (ii) Shared power to vote or to direct the vote: 0
  - (iii) Sole power to dispose or to direct the disposition of: 20,640,119<sup>7</sup>
  - (iv) Shared power to dispose or to direct the disposition of: 0

**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 5 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, other than activities solely in connection with a nomination under § 240.14a-11.

<sup>7</sup> The record holder of the securities covered by this Schedule 13G is Ares Trading SA

Ares Trading SA is a dominantly controlled subsidiary of Merck Serono SA, Coinsins, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany Merck Serono SA, Coinsins, Switzerland is a wholly owned indirect subsidiary of Merck KGaA, Darmstadt, Germany. Merck KGaA, Darmstadt, Germany is a publicly traded company (Frankfurt Stock Exchange, DAX 30) and the beneficiary of the two companies.

Merck Serono SA, Coinsins, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany and Merck KGaA, Darmstadt, Germany may be deemed to possess sole voting and dispositive power with respect to the securities held of record by Ares Trading SA

In addition to 20,640,119 shares of Common Stock, Ares Trading SA holds a Convertible Note in the original principal amount of \$25,000,000 issued pursuant to the Purchase Agreement. The Convertible Note matures on June 28, 2021 and is convertible at any time into Common Stock of the Issuer in minimum increments of \$5,000,000, subject to limited exceptions. The Convertible Note may also be converted into common stock or other equity securities of Precigen, Inc. in the event of certain qualified financings by Precigen, Inc. Any outstanding principal amount under the Convertible Note will automatically convert into shares of Common Stock on the first trading day following the date that is the second anniversary of the issuance of the Convertible Note. The conversion price of the Convertible Note, assuming conversion into Common Stock, will be equal to (a) the volume weighted-average price per share of the Common Stock on the Nasdaq Stock Market for the consecutive ten trading days immediately prior to the conversion date as reported by Bloomberg, L.P. or (b) if converted in connection with a qualified public offering by the Issuer, the lowest price per share of Common Stock paid by a purchaser in such qualified public offering.

The amount of securities reported as beneficially owned by the Reporting Persons includes 3,440,019 shares of Common Stock which may be acquired by the Reporting Persons within 60 days of the date hereof, based on the assumed conversion in full of the Convertible Note at a conversion price of \$7.2674 per share.

In the event the aggregate shares of Common Stock issued or issuable to the Reporting Persons pursuant to the Purchase Agreement exceeds 19.99% of the outstanding shares of Common Stock as of the date of the Purchase Agreement, the Issuer has agreed to seek shareholder approval for the issuance of the shares of Common Stock in excess of such threshold. If the Issuer is unable to obtain such shareholder consent, Ares Trading SA will be entitled to receive an amount in cash equal to the value of the shares of Common Stock that would have been issuable upon conversion of the Convertible Note, but for such limitation.

<sup>8</sup> This percentage is based upon a denominator that is the sum of: (a) 159,893,384 shares of Common Stock outstanding as of December 28, 2018 (calculated by adding: (i) 137,221,526 shares of Common Stock outstanding as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2018; plus (ii) 1,933,737 shares of Common Stock issued in connection with the Issuer's acquisition ActoBio Therapeutics, Inc. as reported in the Issuer's Current Report on Form 8-K filed with the Securities and Exchange Commission on November 23, 2018; plus (iii) 77,594 shares and 20,408 shares of Common Stock issued in connection with a certain Services Agreement between the Issuer and Third Security, LLC and a certain Restricted Stock Unit Agreement between the Issuer and Randal J. Kirk, respectively, as reported in a Form 4 filed with the Securities and Exchange Commission on December 3, 2018; plus (iv) 20,640,119 shares of Common Stock issued to the Reporting Persons on December 28, 2018 pursuant to that certain Securities Purchase, Assignment and Assumption Agreement, dated as of December 19, 2018 (the "Purchase Agreement") by and among the Issuer, Ares Trading SA and Precigen, Inc., as reported in the Issuer's Current Reports on Form 8-K filed with the Securities and Exchange Commission on December 20, 2018 and December 31, 2018) and (b) 3,440,019 shares of Common Stock that may be acquired upon the conversion of a certain Convertible Note held by the Reporting Persons, assuming full conversion of the Convertible Note at an assumed conversion price of \$7.2674 per share as of December 28, 2018.

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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.

**ARES TRADING SA**Date: January 7, 2019By: /s/ Cedric HydeName: Cedric HydeTitle: CFO**ARES TRADING SA**Date: January 7, 2019By: /s/ Luigia BocolaName: Luigia BocolaTitle: Finance Manager**MERCK SERONO SA, COINSINS, SWITZERLAND, AN  
AFFILIATE OF MERCK KGAA, DARMSTADT, GERMANY**Date: January 7, 2019By: /s/ Cedric HydeName: Cedric HydeTitle: CFO**MERCK SERONO SA, COINSINS, SWITZERLAND, AN  
AFFILIATE OF MERCK KGAA, DARMSTADT, GERMANY**Date: January 7, 2019By: /s/ Tearaboth TeName: Tearaboth TeTitle: Treasury Director**MERCK KGAA, DARMSTADT, GERMANY**Date: January 7, 2019By: /s/ Rando BrunsName: Rando BrunsTitle: Head of Treasury**MERCK KGAA, DARMSTADT, GERMANY**Date: January 7, 2019By: /s/ Tim NielsenName: Tim NielsenTitle: Head of Treasury Capital Markets



## JOINT FILING AGREEMENT

Pursuant to Rule 13d-1(k)(1) of the Securities Exchange Act of 1934, as amended, each of the undersigned hereby consent to the joint filing on its behalf of a single Schedule 13G and any amendments thereto, with respect to the beneficial ownership by each of the undersigned of the shares of common stock, no par value, of Intrexon Corporation. The undersigned hereby further agree that this Joint Filing Agreement be included as an exhibit to such statement and any such amendment. The undersigned acknowledge that each shall be responsible for the timely filing of such amendments, and for the completeness and accuracy of the information concerning it contained herein and therein, but shall not be responsible for the completeness and accuracy of the information concerning the others. The undersigned hereby further agree that this Joint Filing Agreement may be executed in any number of counterparts, each of which when so executed shall be deemed to be an original, but all of which counterparts shall together constitute one and the same instrument.

Dated: January 07, 2019

**ARES TRADING SA**

Date: January 7, 2019

By: /s/ Cedric Hyde

Name: Cedric Hyde

Title: CFO

**ARES TRADING SA**

Date: January 7, 2019

By: /s/ Luigia Bocola

Name: Luigia Bocola

Title: Finance Manager

**MERCK SERONO SA, COINSINS, SWITZERLAND, AN AFFILIATE OF MERCK KGAA, DARMSTADT, GERMANY**

Date: January 7, 2019

By: /s/ Cedric Hyde

Name: Cedric Hyde

Title: CFO

**MERCK SERONO SA, COINSINS, SWITZERLAND, AN AFFILIATE OF MERCK KGAA, DARMSTADT, GERMANY**

Date: January 7, 2019

By: /s/ Tearaboth Te

Name: Tearaboth Te

Title: Treasury Director

**MERCK KGAA, DARMSTADT, GERMANY**

Date: January 7, 2019

By: /s/ Rando Bruns

Name: Rando Bruns

Title: Head of Treasury

**MERCK KGAA, DARMSTADT, GERMANY**

Date: January 7, 2019

By: /s/ Tim Nielsen

Name: Tim Nielsen

Title: Head of Treasury Capital Markets