

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549**

SCHEDULE 13D

(Amendment No. 8)*

Under the Securities Exchange Act of 1934

INTREXON CORPORATION

(Name of Issuer)

Common Stock

(Title of Class of Securities)

46122T102

(CUSIP Number)

**Third Security, LLC
1881 Grove Avenue
Radford, Virginia 24141
Attention: Marcus E. Smith, Esq.
(540) 633-7900**

(Name, Address and Telephone Number of Person
Authorized to Receive Notices and Communications)

**Copy to:
John Owen Gwathmey, Esq.
David I. Meyers, Esq.
Troutman Sanders LLP
Troutman Sanders Building
1001 Haxall Point
Richmond, Virginia 23219
(804) 697-1239**

May 13, 2019

(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition which is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(b)(3) or (4), check the following box .

NOTE: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-7 for other parties to whom copies are to be sent.

* 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 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).

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS RANDAL J. KIRK	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF GROUP (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS PF	
5	CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e) <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION United States	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 70,439,882
	8	SHARED VOTING POWER 0
	9	SOLE DISPOSITIVE POWER 70,439,882
	10	SHARED DISPOSITIVE POWER 0
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 70,439,882	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 43.7%	
14	TYPE OF REPORTING PERSON IN	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS R.J. KIRK DECLARATION OF TRUST 31-6661283	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF GROUP (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS PF	
5	CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e) <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION United States	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 16,924,973
	8	SHARED VOTING POWER 0
	9	SOLE DISPOSITIVE POWER 16,924,973
	10	SHARED DISPOSITIVE POWER 0
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 16,924,973	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 10.5%	
14	TYPE OF REPORTING PERSON OO - trust	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS THIRD SECURITY, LLC I.R.S. IDENTIFICATION NO.: 54-1923091	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF GROUP (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS WC	
5	CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e) <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION Virginia	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 53,368,111
	8	SHARED VOTING POWER 0
	9	SOLE DISPOSITIVE POWER 53,368,111
	10	SHARED DISPOSITIVE POWER 0
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 53,368,111	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 33.1%	
14	TYPE OF REPORTING PERSON OO – limited liability company	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS THIRD SECURITY CAPITAL PARTNERS V, LLC I.R.S. IDENTIFICATION NO.: 52-2395642	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF GROUP (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS WC	
5	CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e) <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 8,325,000
	8	SHARED VOTING POWER 0
	9	SOLE DISPOSITIVE POWER 8,325,000
	10	SHARED DISPOSITIVE POWER 0
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 8,325,000	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 5.2%	
14	TYPE OF REPORTING PERSON OO – limited liability company	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS NRM VI HOLDINGS I, LLC I.R.S. IDENTIFICATION NO.: 27-1471440	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF GROUP (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS WC	
5	CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e) <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION Virginia	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 13,340,645
	8	SHARED VOTING POWER 0
	9	SOLE DISPOSITIVE POWER 13,340,645
	10	SHARED DISPOSITIVE POWER 0
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 13,340,645	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 8.3%	
14	TYPE OF REPORTING PERSON OO – limited liability company	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS KAPITAL JOE, LLC I.R.S. IDENTIFICATION NO.: 45-2595931	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF GROUP (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS WC	
5	CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e) <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION Virginia	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 14,140,139
	8	SHARED VOTING POWER 0
	9	SOLE DISPOSITIVE POWER 14,140,139
	10	SHARED DISPOSITIVE POWER 0
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 14,140,139	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 8.8%	
14	TYPE OF REPORTING PERSON OO – limited liability company	

This Amendment No. 8 (the "Amendment") amends and supplements the Statement on Schedule 13D, dated March 27, 2014 and filed on April 7, 2014, as amended by Amendment No. 1 dated December 31, 2014 and filed on January 5, 2015, by Amendment No. 2 dated May 31, 2016 and filed June 2, 2016, by Amendment No. 3 dated July 24, 2017 and filed July 26, 2017, by Amendment No. 4 dated October 16, 2017 and filed October 23, 2017, by Amendment No. 5 dated December 29, 2017 and filed on January 2, 2018, by Amendment No. 6 dated January 19, 2018 and filed January 22, 2018, and by Amendment No. 7 dated July 3, 2018 and filed July 6, 2018 (the "Original Schedule 13D"), relating to the Common Stock, no par value per share (the "Common Stock"), of Intrexon Corporation, a Virginia corporation (the "Company"). Mr. Randal J. Kirk ("Mr. Kirk"), the R.J. Kirk Declaration of Trust, a revocable trust established by Mr. Kirk ("RJ DOT"), Third Security, LLC, a Virginia limited liability company that is controlled by Mr. Kirk ("Third Security"), Third Security Capital Partners V, LLC, a Delaware limited liability company that is managed by Third Security ("TSCP V"), Kapital Joe, LLC, a Virginia limited liability company that is managed by Third Security ("Kapital Joe"), and NRM VI Holdings I, LLC, a Delaware limited liability company that is managed by an affiliate that is managed by Third Security ("NRM VI Holdings" and, together with Mr. Kirk, the RJ DOT, Third Security, TSCP V, and Kapital Joe, the "Reporting Persons") are filing this Amendment to disclose the purchase by entities under the common control of Mr. Kirk of 2,096,209 shares of Common Stock, in open market transactions between May 13, 2019 and May 15, 2019 (the "Purchased Shares").

Item 3. Source and Amount of Funds or Other Consideration.

Item 3 of the Original Schedule 13D is hereby amended and supplemented as follows:

The following Reporting Persons, entities managed by Third Security, or entities for which a Reporting Person is trustee (hereinafter collectively referred to as the "Purchasing Entities"), each utilized its working capital to purchase 2,096,209 shares, in open market transactions between May 13, 2019 and May 15, 2019, for an aggregate purchase price of approximately \$9,216,245.

Entity	Number of Purchased Shares	Percentage of Shares of Common Stock Purchased
RJ DOT	734,219	35.026%
JPK 2008, LLC	19,956	0.952%
JPK 2009, LLC	151,472	7.226%
JPK 2012, LLC	67,373	3.214%
MGK 2008, LLC	19,159	0.914%
MGK 2009, LLC	157,509	7.514%
MGK 2011, LLC	68,379	3.262%
ZSK 2008, LLC	18,823	0.898%
ZSK 2009, LLC	14,045	0.670%
Kellie L. Banks (2009) Long Term Trust	6,792	0.324%
Third Security Senior Staff 2015 LLC	335,393	16.000%
Third Security Staff 2015 LLC	335,393	16.000%
Third Security Incentive 2010 LLC	167,696	8.000%

On May 13, 2019, the Purchasing Entities entered into a purchase agreement setting forth the allocation of the Purchased Shares, which allocation is set forth in the table above. Shares purchased pursuant to the purchase agreement were allocated to each purchasing entity at the same price per share.

Item 4. Purpose of Transaction.

Item 4 of the Original Schedule 13D is hereby amended and supplemented as follows:

The information set forth in Items 3 and 6 is incorporated herein by reference.

The shares disclosed herein were acquired by the Purchasing Entities for investment purposes.

Item 5. Interest in Securities of the Issuer.

Items 5(a) and (b) of the Original Schedule 13D are hereby amended and restated to read in their entirety as follows:

(a) and (b) See items 11 and 13 of the cover pages to this Statement for the aggregate number of shares and percentage of issued and outstanding shares of Common Stock of the Company owned by the Reporting Persons. The percentage ownership is calculated based on 160,764,358 shares of Common Stock issued and outstanding as of April 30, 2019 as disclosed in the Intrexon Corporation Quarterly Report on Form 10-Q for the period ended March 31, 2019 and filed on May 9, 2019, increased by 508,617 shares of Common Stock issued to Third Security on May 1, 2019, pursuant to the Services Agreement by and between the Company and Third Security dated November 1, 2015, as amended by the First Amendment to the Services Agreement dated October 31, 2016, as amended by the Second Amendment to the Services Agreement dated December 30, 2016, as amended by the Third Amendment to the Services Agreement dated December 28, 2017, and as amended by the Fourth Amendment to the Services Agreement dated April 18, 2019 (the "Services Agreement").

Reporting Person	Amount of Common Stock Beneficially Owned	Percent of Class	Sole Power to Vote or Direct the Vote	Shared Power to Vote or Direct the Vote	Sole Power to Dispose or to Direct the Disposition	Shared Power to Dispose or to Direct the Disposition
Randal J. Kirk	70,439,882	43.7%	70,439,882	--	70,439,882	--
R.J. Kirk Declaration of Trust	16,924,973	10.5%	16,924,973	--	16,924,973	--
Third Security, LLC	53,368,111	33.1%	53,368,111	--	53,368,111	--
Third Security Capital Partners V, LLC	8,325,000	5.2%	8,325,000	--	8,325,000	--
NRM VI Holdings I, LLC	13,340,645	8.3%	13,340,645	--	13,340,645	--
Kapital Joe, LLC	14,140,139	8.8%	14,140,139	--	14,140,139	--

Mr. Kirk could be deemed to have indirect beneficial ownership of the shares of Common Stock directly beneficially owned by the RJ DOT, Third Security, TSCP V, Kapital Joe, and NRM VI Holdings. Mr. Kirk controls Third Security, which is the manager of TSCP V and Kapital Joe and which manages the manager of NRM VI Holdings.

(c) Pursuant to the Services Agreement, the Company has agreed to pay to Third Security, on a monthly basis, such number of shares of Common Stock, rounded down to the nearest whole number, equal to a value of \$800,000. The number of shares issuable to Third Security shall be calculated by dividing \$800,000 by the volume-weighted average of the price of the Common Stock (as calculated by Bloomberg) over the 30-day period ending on the 15th day of the calendar month during which the applicable services are provided. The Services Agreement may be terminated by the Company at any time and, unless earlier terminated, will continue until January 1, 2020. Pursuant to the Services Agreement, on May 1, 2019, the Company issued 508,617 shares of Common Stock to Third Security as consideration for the services provided from January 1, 2019 through April 30, 2019. Such number of shares was calculated on a per month basis using the applicable volume-weighted average of the price: (i) 111,225 shares at price of \$7.19 per share for the month of January 2019; (ii) 99,328 shares at a price of \$8.05 per share for the month of February 2019; (iii) 146,161 shares at a price of \$5.47 per share for the month of March 2019; and (iv) 151,903 shares at a price of \$5.27 per share for the month of April 2019.

Pursuant to the Restricted Stock Unit Agreement by and between the Company and Randal J. Kirk dated November 1, 2015 (the "RSU Agreement"), the Company agreed to pay to Mr. Kirk, on a monthly basis, that number of shares of Common Stock, rounded down to the nearest whole share, whose fair market value equals \$200,000. The number of shares of Common Stock are to become vested and payable based upon the closing price of the Common Stock on the NYSE on the last calendar day of each month (or, if such date is not a trading day, the most recent trading day prior to such date). The term of the RSU Agreement expired on March 31, 2019. Pursuant to the RSU Agreement, the Company issued to Mr. Kirk 38,022 shares of Common Stock on March 29, 2019.

Following the expiration of the RSU Agreement, the Company and Randal J. Kirk entered into a Restricted Stock Unit Agreement on April 1, 2019 (the "2019 RSU Agreement"), pursuant to which the Company has agreed to pay to Mr. Kirk, on a monthly basis, that number of shares of Common Stock, rounded down to the nearest whole share, whose fair market value equals \$200,000. The number of shares of Common Stock are to become vested and payable based upon the volume-weighted average of the price of the Common Stock (as calculated by Bloomberg) over the 30-day period ending on the last calendar day of the month. Unless earlier terminated pursuant to the provisions of the Company's Amended and Restated 2013 Omnibus Incentive Plan, the 2019 RSU Agreement will expire on March 31, 2020. Mr. Kirk has designated the RJ DOT to receive shares awarded to him pursuant to the 2019 RSU Agreement. Pursuant to the 2019 RSU Agreement, the Company issued to Mr. Kirk 43,887 shares of Common Stock on April 30, 2019.

Except as disclosed herein, none of the Reporting Persons have engaged in any transactions in the Company's Common Stock in the past 60 days.

(d) – (e) Not applicable

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer.

Item 6 of the Original Schedule 13D is hereby amended and restated to read in its entirety as follows:

The Reporting Persons' response to Item 3 is incorporated herein by reference.

Item 7. Material to be Filed as Exhibits.

Exhibit 1 Joint Filing Agreement, dated as of May 15, 2019, by and among Randal J. Kirk, the R.J. Kirk Declaration of Trust, Third Security, LLC, Third Security Capital Partners V, LLC, Kapital Joe, LLC, and NRM VI Holdings I, LLC.

SIGNATURES

After reasonable inquiry and to the best of their knowledge and belief, the undersigned certify that the information set forth in this statement is true, complete and correct.

Date: May 15, 2019

/s/ Randal J. Kirk

Randal J. Kirk

R.J. KIRK DECLARATION OF TRUST

By: /s/ Randal J. Kirk

Randal J. Kirk
Trustee

THIRD SECURITY, LLC

By: /s/ Randal J. Kirk

Randal J. Kirk
Manager

THIRD SECURITY CAPITAL PARTNERS V, LLC

By: /s/ Randal J. Kirk

Randal J. Kirk
Manager

KAPITAL JOE, LLC

By: /s/ Randal J. Kirk

Randal J. Kirk
Manager

NRM VI HOLDINGS I, LLC

By: /s/ Randal J. Kirk

Randal J. Kirk
Manager

EXHIBIT INDEX

[Exhibit 1](#) Joint Filing Agreement, dated as of May 15, 2019, by and among Randal J. Kirk, the R.J. Kirk Declaration of Trust, Third Security, LLC, Third Security Capital Partners V, LLC, Kapital Joe, LLC, and NRM VI Holdings I, LLC.

Joint Filing Agreement

In accordance with Rule 13d-1(k) promulgated under the Securities Exchange Act of 1934, as amended, the persons named below agree to the joint filing on behalf of each of them a Statement on Schedule 13D (including amendments thereto) with regard to the common stock of Intrexon Corporation, and further agree that this Joint Filing Agreement be included as an exhibit to such joint filings. In evidence thereof, the undersigned, being duly authorized, hereby execute this agreement as of the 15th day of May, 2019.

Date: May 15, 2019

/s/ Randal J. Kirk

Randal J. Kirk

R.J. KIRK DECLARATION OF TRUST

By: /s/ Randal J. Kirk

Randal J. Kirk

Trustee

THIRD SECURITY, LLC

By: /s/ Randal J. Kirk

Randal J. Kirk

Manager

THIRD SECURITY CAPITAL PARTNERS V, LLC

By: /s/ Randal J. Kirk

Randal J. Kirk

Manager

KAPITAL JOE, LLC

By: /s/ Randal J. Kirk

Randal J. Kirk

Manager

NRM VI HOLDINGS I, LLC

By: /s/ Randal J. Kirk

Randal J. Kirk

Manager
