UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

SCHEDULE 13D

(Amendment No. 9)*

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 24, 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 \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).

	NAMES OF REPORTING PERSONS I R S. IDENTIFICATION NOS, OF ABOVE PERSONS (ENTITIES ONLY)						
1	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)						
	RANDAL J. KIRK						
	CHECK	THE A	PPROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗆			
2				(b) 🗵			
	SEC US	E ONLY	<i>y</i>				
3	SEC US	LUNLI					
_							
-	SOURC	E OF FU	UNDS (SEE INSTRUCTIONS)				
4	PF						
	СНЕСК	BOX I	F DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)				
5							
	CITIZE	NCLID					
6	CITIZENSHIP OR PLACE OF ORGANIZATION						
U	United S	States					
	7	I	SOLE VOTING POWER				
		7	72,179,353				
			SHARED VOTING POWER				
NUMBER OF SH		8	0				
BENEFICIAL OWNED BY EA							
REPORTING PE WITH	RSON	9	SOLE DISPOSITIVE POWER				
WIIII		0	72,179,353				
			SHARED DISPOSITIVE POWER				
		10	0				
	AGGRE	EGATE /	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
11							
	72,179,353						
	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE						
12							
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)						
10	44.8%						
	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)						
14	IN						

				ruge o or ri			
	NAMES	OF RE	PORTING PERSONS				
1	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)						
1	R.J. KII 31-6661		CLARATION OF TRUST				
_	CHECK	K THE A	PPROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗆			
2				(b) 🗵			
3	SEC USE ONLY						
	SOURC	E OF FU	UNDS (SEE INSTRUCTIONS)				
4	PF						
_	CHECK	K BOX II	F DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)				
5							
	CITIZE	NSHIP	OR PLACE OF ORGANIZATION				
6	United S	States					
		_	SOLE VOTING POWER				
		7	17,534,241				
			SHARED VOTING POWER				
NUMBER OF S BENEFICIA	ALLY	8	0				
OWNED BY REPORTING I		•	SOLE DISPOSITIVE POWER				
WITH		9	17,534,241				
			SHARED DISPOSITIVE POWER				
		10	0				
	AGGRE	EGATE /	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
11	17,534,2	17,534,241					
		CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE					
12	INSTRU	INSTRUCTIONS)					
	PERCE	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)					
13	10.9%						
1.4	ТҮРЕ С)F REP(ORTING PERSON (SEE INSTRUCTIONS)				
14	00 - tri	ıst					

1 I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) THIRD SECURITY, LLC I.R.S. IDENTIFICATION NO.: 54-1923091 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) □		NAMES	S OF PF	POPTING PEDSONS					
1 THIRD SECURITY, LLC LRS. IDENTIFICATION NO.: 54-1923091 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (c) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	1	NAMES OF REPORTING PERSONS LR.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)							
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) □ 3 SEC USE ONLY (b) ∅ 3 SOURCE OF FUNDS (SEE INSTRUCTIONS) wc (b) ∅ 5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E) □ 6 CITIZENSHIP OR PLACE OF ORGANIZATION Virginia (b) ∅ NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH 7 SOLE VOTING POWER 54,492,677 11 SOLE DISPOSITIVE POWER 54,492,677 SOLE DISPOSITIVE POWER 54,492,677 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 54,492,677 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 33.8%									
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3 SEC USE ONLY 4 SOURCE OF FUNDS (SEE INSTRUCTIONS) WC 5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E) 6 CITIZENSHIP OR PLACE OF ORGANIZATION Virginia NUMBER OF SHARES BENEFICIALLY OWNED BY EACH 7 9 SOLE VOTING POWER 54,492,677 10 SOLE DISPOSITIVE POWER 9,4492,677 10 SHARED DISPOSITIVE POWER 9,4492,677 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 34,492,677 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 34,492,677 11 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)		CHECK	K THE A	PPROPRIATE BOX IF A MEMBER OF A GROUP					
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3 SOURCE OF FUNDS (SEE INSTRUCTIONS) WC 5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E) 6 CHIZENSHIP OR PLACE OF ORGANIZATION Virginia NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH 9 SOLE VOTING POWER 54,492,677 10 SHARED DISPOSITIVE POWER 54,492,677 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 34,492,677 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 34,492,677 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 33,8%		SEC US		7					
4 SOURCE OF FUNDS (SEE INSTRUCTIONS) WC 5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E) 6 CITIZENSHIP OR PLACE OF ORGANIZATION Virginia NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH 9 SOLE VOTING POWER 54,492,677 9 SOLE DISPOSITIVE POWER 54,492,677 10 SOLE DISPOSITIVE POWER 54,492,677 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 54,492,677 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 54,492,677 11 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (II) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (II) 33.8%	3	SEC US	E UNLI						
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5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E) 6 CITIZENSHIP OR PLACE OF ORGANIZATION Virginia NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH 7 SOLE VOTING POWER 54,492,677 8 0 9 SOLE DISPOSITIVE POWER 54,492,677 10 SOLE DISPOSITIVE POWER 0 9 SOLE DISPOSITIVE POWER 54,492,677 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 54,492,677 11 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (II) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (II) 33.8%	4	wc							
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6 CITIZENSHIP OR PLACE OF ORGANIZATION Virginia SOLE VOTING POWER 54,492,677 SHARED VOTING POWER 0 0 SOLE VOTING POWER 0 0 SOLE VOTING POWER 0 0 SOLE DISPOSITIVE POWER 10 SHARED DISPOSITIVE POWER 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON ISAURCEINON INSTRUCTIONS INSTRUCTIONS <td< td=""><td>5</td><td>CHECK</td><td>A BOX II</td><td>F DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)</td><td></td></td<>	5	CHECK	A BOX II	F DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)					
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Image: Sole voting power NUMBER OF SHARES 7 SOLE voting power BENEFICIALLY 8 0 OWNED BY EACH 9 SOLE DISPOSITIVE POWER P 9 SOLE DISPOSITIVE POWER 10 0 SOLE DISPOSITIVE POWER 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 54,492,677 0 11 SHARED DISPOSITIVE POWER 12 CHECK BOX IF THE AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 54,492,677 0 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE 13 9 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 33.8% TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)	6	Virginia							
NUMBER OF SHARES 7 54,492,677 NUMBER OF SHARES 8 SHARED VOTING POWER 0 0 9 SOLE DISPOSITIVE POWER 9 54,492,677 54,492,677 10 SHARED DISPOSITIVE POWER 54,492,677 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 11 SHARED DISPOSITIVE POWER 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 3.8% TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)		1							
NUMBER OF SHARES 34,492,677 BENEFICIALLY SHARED VOTING POWER 0 9 SOLE DISPOSITIVE POWER 9 54,492,677 10 SHARED DISPOSITIVE POWER 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 54,492,677 SHARED DISPOSITIVE POWER 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 54,492,677 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 3.8% TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)			7	SOLE VOTING POWER					
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BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH P P 9 50LE DISPOSITIVE POWER 54,492,677 10 0 SHARED DISPOSITIVE POWER 0 SHARED DISPOSITIVE POWER 0				SHARED VOTING POWER					
Interference Sole Dispositive Power OWNED BY EACH REPORTING PERSON WITH 9 Sole Dispositive Power 10 54,492,677 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 11 54,492,677 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 13 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)			8	0					
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10 0 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 54,492,677 54,492,677 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)	WIIH	L	9	54,492,677					
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 54,492,677 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 33.8% TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) 14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)				SHARED DISPOSITIVE POWER					
11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 54,492,677 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 13 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)			10	0					
11 54,492,677 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 33.8% 14									
12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) □ 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) □ 33.8% □ 14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)	11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON							
12 INSTRUCTIONS) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 33.8% TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)	11	54,492,677							
12 INSTRUCTIONS) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 33.8% TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)		CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE							
13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 33.8% 1Λ	12	INSTRU							
13 33.8% TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)	14								
13 33.8% TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)		PERCE	DEDCENT OF CLASS DEDDESENTED BY AMOUNT IN DOW (11)						
33.0 % TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) 1 Λ	13								
1/	10	33.8%	33.8%						
14 OO – limited liability company		TYPE C	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)						
	14	OO – limited liability company							

	NAMES	OF RE	PORTING PERSONS					
1	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)							
1		THIRD SECURITY CAPITAL PARTNERS V, LLC I.R.S. IDENTIFICATION NO.: 52-2395642						
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b)							
3	SEC USE ONLY							
4	SOURC WC	E OF FU	UNDS (SEE INSTRUCTIONS)					
5	СНЕСК	K BOX II	F DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)					
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware							
I		7	SOLE VOTING POWER 8,325,000					
NUMBER OF S BENEFICI OWNED BY	ALLY	8	SHARED VOTING POWER 0					
REPORTING I WITH	PERSON	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 BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)							
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 5.2%							
14	4 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) OO – limited liability company							

1 I.R.S. IDI NRM VI I.R.S. IDI CHECK 2 SEC USE	ENTIFI HOLDI ENTIFI	PORTING PERSONS ICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) INGS I, LLC ICATION NO.: 27-1471440					
I NRM VI I I.R.S. IDH CHECK T SEC USE	HOLDI ENTIFI	INGS I, LLC					
2 CHECK		ICATION NO.: 27-1471440					
2 SEC USE	THE A						
SEC USE		PPROPRIATE BOX IF A MEMBER OF A GROUP	(a) □				
			(b) 🗵				
3	ONLY						
-							
	OF FU	JNDS (SEE INSTRUCTIONS)					
4 wc							
CHECK !	BOX IF	F DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)					
5							
	ISHID (OR DI ACE OF ORCANIZATION					
6	CITIZENSHIP OR PLACE OF ORGANIZATION						
Virginia							
	-	SOLE VOTING POWER					
	7	13,340,645					
	-	SHARED VOTING POWER					
NUMBER OF SHARES BENEFICIALLY	8	0					
OWNED BY EACH REPORTING PERSON		SOLE DISPOSITIVE POWER					
WITH	9	13,340,645					
		SHARED DISPOSITIVE POWER					
	10	0					
AGGRE	GATE A	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
11 13,340,64	13,340,645						
	CHECK BOY IE THE ACCDECATE AMOUNT IN DOW (11) EYCLUDES CEDTAIN SHADES (SEE						
INSTRUC	INSTRUCTIONS)						
12							
PERCEN	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)						
13 _{8.3%}	8.3%						
TYPE OI	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)						
14	OO – limited liability company						

	NAMES	S OF RE	PORTING PERSONS					
1	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)							
	KAPITAL JOE, LLC							
	I.R.S. II	DENTIF	ICATION NO.: 45-2595931					
	CHECK	K THE A	PPROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗆				
2				(b) 🗵				
			*					
3	SEC USE ONLY							
	COURC							
4	SOURC	E OF FU	UNDS (SEE INSTRUCTIONS)					
4	WC							
	CHECK	K BOX I	F DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)					
5								
	CITIZE	NSHIP	OR PLACE OF ORGANIZATION					
6	Virginia	ı						
			SOLE VOTING POWER					
		7	14,140,139					
			SHARED VOTING POWER					
NUMBER OF S		8	0					
BENEFICIA OWNED BY								
REPORTING P	PERSON	•	SOLE DISPOSITIVE POWER					
WITH		9	14,140,139					
			SHARED DISPOSITIVE POWER					
		10	0					
	ACCDI							
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON							
	14,140,139							
	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE							
12	INSTRU	INSTRUCTIONS)						
16								
	PERCE	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)						
13	8.8%							
14								
14	00 – lii	OO – limited liability company						
	8.8% TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)							

This Amendment No. 9 (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, by Amendment No. 7 dated July 3, 2018 and filed July 6, 2018, and by Amendment No. 8 dated May 13, 2019 and filed May 15, 2019 (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 ("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 1,739,471 shares of Common Stock, in open market transactions between May 17, 2019 and May 24, 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 1,739,471 shares, in open market transactions between May 17, 2019 and May 24, 2019, for an aggregate purchase price of approximately \$8,119,000.

Entity	Number of Purchased Shares	Percentage of Shares of Common Stock Purchased
RJ DOT	609,268	35.026%
JPK 2008, LLC	16,560	0.952%
JPK 2009, LLC	125,693	7.226%
JPK 2012, LLC	55,907	3.214%
MGK 2008, LLC	15,898	0.914%
MGK 2009, LLC	130,703	7.514%
MGK 2011, LLC	56,741	3.262%
ZSK 2008, LLC	15,620	0.898%
ZSK 2009, LLC	11,654	0.670%
Kellie L. Banks (2009) Long Term Trust	5,637	0.324%
Third Security Senior Staff 2015 LLC	278,316	16.000%
Third Security Staff 2015 LLC	278,316	16.000%
Third Security Incentive 2010 LLC	139,158	8.000%

CUSIP No. 46122T102

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. <u>Purpose of Transaction</u>.

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. <u>Interest in Securities of the Issuer</u>.

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.

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	72,179,353	44.8%	72,179,353		72,179,353	
R.J. Kirk Declaration of Trust	17,534,241	10.9%	17,534,241		17,534,241	
Third Security, LLC	54,492,677	33.8%	54,492,677		54,492,677	
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) Except as disclosed in the Original 13D and this Amendment, 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. <u>Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer</u>.

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. <u>Material to be Filed as Exhibits</u>.

Exhibit 1 Joint Filing Agreement, dated as of May 24, 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 24, 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: <u>/s/ Randal J. Kirk</u> Randal J. Kirk Manager

KAPITAL JOE, LLC

By: <u>/s/ Randal J. Kirk</u> Randal J. Kirk Manager

NRM VI HOLDINGS I, LLC

By: /s/ Randal J. Kirk Randal J. Kirk Manager

EXHIBIT INDEX



bit 1 Joint Filing Agreement, dated as of May 24, 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.

<u>Exhibit 1</u>

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 24th day of May, 2019.

Date: May 24, 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