

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL

OMB Number: 3235-0287
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1. Name and Address of Reporting Person*			2. Issuer Name and Ticker or Trading Symbol			5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
<u>KIRK RANDAL J</u>			<u>ZIOPHARM ONCOLOGY INC [ZIOP]</u>			<input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)					
			<u>06/04/2015</u>					
C/O THIRD SECURITY, LLC 1881 GROVE AVENUE			4. If Amendment, Date of Original Filed (Month/Day/Year)			6. Individual or Joint/Group Filing (Check Applicable Line)		
(Street)						<input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person		
<u>RADFORD</u>	<u>VA</u>	<u>24141</u>						
(City)	(State)	(Zip)						

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	06/04/2015		j ⁽¹⁾		17,830,305 ⁽¹⁾	D	(1)	0	I	by Intrexon Corporation ⁽²⁾
Common Stock	06/04/2015		j ⁽¹⁾		3,479,006 ⁽¹⁾	A	(1)	3,479,006	I	by R.J. Kirk DOT ⁽³⁾
Common Stock	06/04/2015		j ⁽¹⁾		23,349 ⁽¹⁾	A	(1)	23,349	I	by JPK 2008 ⁽³⁾
Common Stock	06/04/2015		j ⁽¹⁾		23,504 ⁽¹⁾	A	(1)	23,504	I	by MGK 2008 ⁽³⁾
Common Stock	06/04/2015		j ⁽¹⁾		40,954 ⁽¹⁾	A	(1)	40,954	I	by ZSK 2008 ⁽³⁾
Common Stock	06/04/2015		j ⁽¹⁾		240 ⁽¹⁾	A	(1)	240	I	by Lotus ⁽³⁾
Common Stock	06/04/2015		j ⁽¹⁾		53,245 ⁽¹⁾	A	(1)	53,245	I	by Staff 2001 ⁽³⁾
Common Stock	06/04/2015		j ⁽¹⁾		9,537 ⁽¹⁾	A	(1)	9,537	I	by Sr. Staff ⁽³⁾
Common Stock	06/04/2015		j ⁽¹⁾		337,333 ⁽¹⁾	A	(1)	337,333	I	by JPK 2009 ⁽³⁾
Common Stock	06/04/2015		j ⁽¹⁾		358,386 ⁽¹⁾	A	(1)	358,386	I	by MGK 2009 ⁽³⁾
Common Stock	06/04/2015		j ⁽¹⁾		34,318 ⁽¹⁾	A	(1)	34,318	I	by ZSK 2009 ⁽³⁾
Common Stock	06/04/2015		j ⁽¹⁾		29,066 ⁽¹⁾	A	(1)	29,066	I	by ADC 2010 ⁽³⁾
Common Stock	06/04/2015		j ⁽¹⁾		154,181 ⁽¹⁾	A	(1)	154,181	I	by MGK 2011 ⁽³⁾
Common Stock	06/04/2015		j ⁽¹⁾		138,975 ⁽¹⁾	A	(1)	138,975	I	by JPK 2012 ⁽³⁾
Common Stock	06/04/2015		j ⁽¹⁾		61,262 ⁽¹⁾	A	(1)	61,262	I	by Kellie L. Banks LTT ⁽³⁾
Common Stock	06/04/2015		j ⁽¹⁾		1,013,146 ⁽¹⁾	A	(1)	2,359,608	I	by Kapital Joe ⁽⁴⁾
Common Stock	06/04/2015		j ⁽¹⁾		889,513 ⁽¹⁾	A	(1)	889,513	I	by Mascara Kaboom ⁽⁴⁾
Common Stock	06/04/2015		j ⁽¹⁾		395,791 ⁽¹⁾	A	(1)	395,791	I	by Senior Staff 2008 ⁽⁴⁾
Common Stock	06/04/2015		j ⁽¹⁾		222,680 ⁽¹⁾	A	(1)	222,680	I	by Staff 2010 ⁽⁴⁾

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	06/04/2015		j ⁽¹⁾		111,339 ⁽¹⁾	A	(1)	111,339	I	by Incentive 2010 ⁽⁴⁾
Common Stock	06/04/2015		j ⁽¹⁾		352,477 ⁽¹⁾	A	(1)	352,477	I	by Senior Staff 2007 ⁽⁴⁾
Common Stock	06/04/2015		j ⁽¹⁾		176,238 ⁽¹⁾	A	(1)	176,238	I	by Staff 2007 ⁽⁴⁾
Common Stock	06/04/2015		j ⁽¹⁾		58,746 ⁽¹⁾	A	(1)	58,746	I	by Incentive 2007 ⁽⁴⁾
Common Stock	06/04/2015		j ⁽¹⁾		173,111 ⁽¹⁾	A	(1)	173,111	I	by Staff 2009 ⁽⁴⁾
Common Stock	06/04/2015		j ⁽¹⁾		86,556 ⁽¹⁾	A	(1)	86,556	I	by Incentive 2009 ⁽⁴⁾
Common Stock								95,648	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					

1. Name and Address of Reporting Person*
KIRK RANDAL J

 (Last) (First) (Middle)
C/O THIRD SECURITY, LLC
1881 GROVE AVENUE

 (Street)
RADFORD VA 24141

 (City) (State) (Zip)

1. Name and Address of Reporting Person*
INTREXON CORP

 (Last) (First) (Middle)
C/O LEGAL DEPARTMENT
20374 SENECA MEADOWS PARKWAY

 (Street)
GERMANTOWN MD 20876

 (City) (State) (Zip)

Explanation of Responses:

- Intrexon Corporation declared a dividend of shares of ZIOPHARM Oncology, Inc. common stock held by it to its holders of record as of June 4, 2015.
- Randal J. Kirk, directly and through certain affiliates, has voting and dispositive power over a majority of the outstanding capital stock of Intrexon Corporation. Mr. Kirk may therefore be deemed to have voting and dispositive power over the shares of the issuer owned by Intrexon Corporation. Shares held by Intrexon Corporation may be deemed to be indirectly beneficially owned (as defined under Rule 13d-3 promulgated under the Securities Exchange Act of 1934, as amended) by Mr. Kirk. Mr. Kirk disclaims beneficial ownership of such shares, except to the extent of any pecuniary interest therein.
- Randal J. Kirk controls each of Randal J. Kirk Declaration of Trust ("R.J. Kirk DOT"), JPK 2008, LLC ("JPK 2008"), MGK 2008, LLC ("MGK 2008"), ZSK 2008, LLC ("ZSK 2008"), Lotus Capital (2000) Co., Inc. ("Lotus"), Third Security Staff 2001 LLC ("Staff 2001"), Third Security Senior Staff LLC ("Sr. Staff"), JPK 2009, LLC ("JPK 2009"), MGK 2009, LLC ("MGK 2009"), ZSK 2009, LLC ("ZSK 2009"), ADC 2010, LLC ("ADC 2010"), MGK 2011, LLC ("MGK 2011"), JPK 2012, LLC ("JPK 2012") and Kellie L. Banks (2009) Long Term Trust ("Kellie L. Banks LTT"). Shares held by these entities may be deemed to be beneficially owned (as defined under Rule 13d-3 promulgated under the Securities Exchange Act of 1934, as amended) by Mr. Kirk. Mr. Kirk disclaims beneficial ownership of such shares, except to the extent of any pecuniary interest therein.
- Randal J. Kirk controls each of Kapital Joe, LLC ("Kapital Joe"), Mascara Kaboom, LLC ("Mascara Kaboom"), Third Security Senior Staff 2008 LLC ("Senior Staff 2008"), Third Security Staff 2010 LLC ("Staff 2010"), Third Security Incentive 2010 LLC ("Incentive 2010"), Third Security Senior Staff 2007 LLC ("Senior Staff 2007"), Third Security Staff 2007 LLC ("Staff 2007"), Third Security Incentive 2007 LLC ("Incentive 2007"), Third Security Staff 2009 LLC ("Staff 2009") and Third Security Incentive 2009 LLC ("Incentive 2009"). Shares held by these entities may be deemed to be beneficially owned (as defined under Rule 13d-3 promulgated under the Securities Exchange Act of 1934, as amended) by Mr. Kirk. Mr. Kirk disclaims beneficial ownership of such shares, except to the extent of any pecuniary interest therein.

Remarks:

/s/ Randal J. Kirk, CEO of
Intrexon Corporation

06/08/2015

/s/ Randal J. Kirk

06/08/2015

** Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.