SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

OMB APPR	OVAL
OMB Number:	3235-0287
Estimated average bur	den

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	hours per response:	0.5
	Estimated average burden	

Instruct	tion 1(b).			File							ities Exchan			34						
							. ,				ompany Act	of 194	10							
1. Name and Address of Reporting Person* KIRK RANDAL J						2. Issuer Name and Ticker or Trading Symbol <u>Synthetic Biologics, Inc.</u> [SYN]								. Relationshi Check all ap Dire	plicable)	0		Issuer Owner		
					-											er (give titl			r (specify	
(Last) (First) (Middle) C/O THIRD SECURITY, LLC						3. Date of Earliest Transaction (Month/Day/Year) 09/02/2015								belo		e	below			
1																				
1881 GR	OVE AVE	NUE			4. If	Ame	ndment	, Date	of Origin	al File	ed (Month/Da	av/Yea	ar)	6	6. Individual or Joint/Group Filing (Check Applicable					
(Street)					-			,	5				- ,		ine)			•		
RADFO	RD VA	A :	24141												Form filed by One Reporting Person X Form filed by More than One Reporting Person					
(City)	(Si	tate) ((Zip)		-															
		Tab	le I - N	on-Deriv	vative	Sec	curitie	es Ac	quired	d, Di	sposed o	f, or	Ben	eficia	ally Own	ed				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Day				Execution Date,		3.4. Securities Acquired (A) oTransactionDisposed Of (D) (Instr. 3, 4 aCode (Instr.5)							6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership					
									Code	v	Amount	(/ (E	() or ()	Price	Transac (Instr. 3	ction(s)			(Instr. 4)	
Common Stock				09/02/	2015				Р		937,500 ⁽	1)	A	\$3.2	2 9,6 1	13,268		I	by Intrexon ⁽²⁾	
Common Stock															3,62	25,000		I	by NRM VII Holdings ⁽³⁾	
		Ta	able II ·								osed of, convertib				y Owned					
1. Title of Derivative Security (Instr. 3) 2. 3. Transaction Date (Month/Day/Year) 3A. Deemed Execution Date, (Month/Day/Year) 1. Title of Derivative Security 3. Transaction Date (Month/Day/Year) 3A. Deemed Execution Date, (Month/Day/Year)				on Date,		ansaction of ode (Instr. Derivative		Expiration Date A (Month/Day/Year) S U S				tle and unt of urities erlying vative urity (li 4)	l nstr. 3	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficial Owned Following Reported Transactie (Instr. 4)	ve es ially ng ed etion(s)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	or Nu of	mber						

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** (Middle) (Last) (First) C/O LEGAL DEPARTMENT 20374 SENECA MEADOWS PARKWAY (Street) GERMANTOWN MD 20876 (City) (Zip) (State)

Explanation of Responses:

1. On September 2, 2015 and pursuant to a Stock Issuance Agreement between the issuer and Intrexon Corporation ("Intrexon") dated August 10, 2015, the issuer issued 937,500 shares of its Common Stock to

Intrexon in consideration for the execution and delivery of an Exclusive Channel Collaboration Agreement dated August 10, 2015 between the issuer and Intrexon.

2. Randal J. Kirk, directly and through certain affiliates, has voting and dispositive power over a majority of the outstanding capital stock of Intrexon. Mr. Kirk may therefore be deemed to have voting and dispositive power over the shares of the issuer owned by Intrexon. Shares held by Intrexon 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.

3. Randal J. Kirk controls NRM VII Holdings I, LLC ("NRM VII Holdings"). Shares held by this entity 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.

Remarks:

/s/ Randal J. Kirk	
/s/ Randal J. Kirk , CEO	

<u>09/04/2015</u> <u>09/04/2015</u>

Intrexon Corporation
** 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.