Synthetic Biologics, Inc. Form 3
October 19, 2012

FORM 3

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

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting 2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Person * Statement Synthetic Biologics, Inc. [SYN] KIRK RANDAL J (Month/Day/Year) 10/16/2012 (Last) (First) (Middle) 4. Relationship of Reporting 5. If Amendment, Date Original Person(s) to Issuer Filed(Month/Day/Year) C/O THIRD SECURITY, (Check all applicable) LLC, 1881 GROVE AVENUE (Street) 6. Individual or Joint/Group _X__ 10% Owner Director Officer Other Filing(Check Applicable Line) (give title below) (specify below) Form filed by One Reporting Person RADFORD, VAÂ 24141 _X_ Form filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Beneficially Owned 4. Nature of Indirect Beneficial 1. Title of Security 2. Amount of Securities Beneficially Owned Ownership Ownership (Instr. 4) (Instr. 4) Form: (Instr. 5) Direct (D) or Indirect (I) (Instr. 5) Common Stock 6,675,768 (1) I by Intrexon (2) Reminder: Report on a separate line for each class of securities beneficially SEC 1473 (7-02) owned directly or indirectly. 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 control number.

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)	Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative	5. Ownership Form of Derivative Security:	6. Nature of Indirect Beneficial Ownership (Instr. 5)
		Title	Security	Direct (D)	

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Date Expiration Amount or or Indirect
Exercisable Date Number of (I)
Shares (Instr. 5)

Reporting Owners

Reporting Owner Name / Address	Relationships				
F	Director	10% Owner	Officer	Other	
KIRK RANDAL J C/O THIRD SECURITY, LLC 1881 GROVE AVENUE RADFORD, VA 24141	Â	ÂX	Â	Â	
INTREXON CORP C/O LEGAL DEPARTMENT 20358 SENECA MEADOWS PARKWAY GERMANTOWN, MD 20876	Â	ÂX	Â	Â	

Signatures

/s/ Randal J. Kirk 10/19/2012

**Signature of Reporting Person Date

/s/ Randal J. Kirk, CEO Intrexon
Corporation 10/19/2012

**Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, *see* Instruction 5(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).

Pursuant to an Exclusive Channel Collaboration Agreement entered into between Intrexon Corporation ("Intrexon") and Synthetic Biologics, Inc. ("Synthetic Biologics") on November 18, 2011 ("Channel Agreement #1"), Synthetic Biologics agreed to issue to Intrexon 3,123,558 shares of common stock of the issuer as partial consideration for the execution and delivery of Channel Agreement #1. The

- (1) closing date of Channel Agreement #1 was December 7, 2011. In connection with a subsequent Exclusive Channel Collaboration Agreement between Intrexon and Synthetic Biologics on August 6, 2012 ("Channel Agreement #2"), Synthetic Biologics agreed to issue to Intrexon 3,552,210 shares of common stock of the issuer as partial consideration for the execution and delivery of Channel Agreement #2. The closing date of Channel Agreement #2 was October 16, 2012.
 - 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
- (2) 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.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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