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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).	

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

#### OMB APPROVAL 3235-0287 OMB Number: Estimated average burden hours per response: 0.5

			or Section 30(h) of the Investment Company Act of 1940				
1	dress of Reporting	Person*	2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>YIELD10 BIOSCIENCE, INC.</u> [YTEN]		tionship of Reporting Pe all applicable)	erson(s) to Issuer	
Sinskey Anthony J			<u></u>	X	Director	10% Owner	
	(First) (Middle) IELD10 BIOSCIENCE, INC. ESIDENTIAL WAY	3. Date of Earliest Transaction (Month/Day/Year) 12/31/2018		Officer (give title below)	Other (specify below)		
19 PRESIDENTIAL WAY		4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	6. Individual or Joint/Group Filing (Check Appli Line)			
(Street)				X	Form filed by One Re	porting Person	
(Last) C/O YIELD1( 19 PRESIDEN (Street) WOBURN	MA	01801			Form filed by More than One Reporting Person		
(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. Transa Code ( 8)		4. Securities / Disposed Of ( 5)			5. Amount of Securities Beneficially Owned Following Reported	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)	(1130.4)

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

			( 3 )												
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. Transa Code ( 8)		5. Number Derivativ Securitie Acquired or Dispos of (D) (In 3, 4 and 5	re es I (A) sed str.	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	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	Title	Amount or Number of Shares		Transaction(s) (Instr. 4)		
Stock Option (right to buy)	\$0.83	12/31/2018		A		3,881 <sup>(1)</sup>		12/31/2018	12/31/2028	Common Stock	3,881	\$0.76	3,881	D	

Explanation of Responses:

1. These options were issued to the Reporting Person pursuant to the Issuer's Director Compensation Policy in lieu of \$2,969 of cash compensation for services rendered to the Issuer as a member of its Board of Directors and/or a committee thereof during the fourth quarter of 2018.

/s/ Megan N. Gates, attorneyin-fact

01/03/2019

\*\* 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.