FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	<b>OWNERSHIP</b>

OMB APPRO	JVAL				
OMB Number:	3235-0287				
Estimated average burd	en				
hours per response:	0.5				
	OMB Number: Estimated average burd				

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

1. Name and Address of Reporting Person* Sinskey Anthony J				2. Issuer Name <b>and</b> Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [ YTEN ]							(Che	elationship of ck all applica Director	able)	Perso	n(s) to Issu 10% Ow			
				3. Date of Earliest Transaction (Month/Day/Year) 05/23/2018							Officer ( below)	give title		Other (s below)	pecify			
19 PRESIDENTIAL WAY				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) WOBUR	RN M	ΙA	01801									1 -	Form fil	-		ting Person One Report	ng	
(City)	(S	tate)	(Zip)															
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3)  2. Transa Date (Month/D				Execution Date,		3. Transaction Code (Instr. 8)  4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4				5. Amoun Securities Beneficia Owned Fo Reported	s Formulay (D) (I) (I) (I)		rm: Direct or Indirect (Instr. 4)	7. Nature of Indirect Beneficial Ownership				
							Code V		Amount	(A) or (D)	Price	Transacti (Instr. 3 a	ion(s)			(Instr. 4)		
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	Date	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (		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 Amour of Securities Underlying Derivative Securit (Instr. 3 and 4)		Derivative Security	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amount or Number of Shares		(Instr. 4)	лі(э)	"		
Stock Option (right to buy)	\$1.65	05/23/2018		A		10,000 <sup>(1)</sup>		(2)	05	5/23/2028	Common Stock	10,000	\$0	10,000		D		

## **Explanation of Responses:**

- 1. These options were issued to the Reporting Person as the annual option grant to non-employee directors pursuant to the Issuer's Director Compensation Policy for services to be rendered to the Issuer as a member of its Board of Directors and/or a committee thereof.
- 2. These options will vest and become exercisable in equal quarterly installments over 4 years from 5/23/18, beginning on 8/23/2018 and ending on 5/23/2022.

/s/ Megan N. Gates, attorney-infact 05/25/2018

\*\* 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.