FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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

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 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*						2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
Sinskey Anthony J														X D	irecto	r		10% Ov	ner	
(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC.						3. Date of Earliest Transaction (Month/Day/Year) 09/30/2019									officer elow)	(give title		Other (s below)	pecify	
· · · · · · · · · · · · · · · · · · ·																				
19 PRESIDENTIAL WAY					4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable						
(Chroat)					1									Line)						
(Street) WOBURN MA 01801													X Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City)	(S	tate)	(Zip)											r	CISOII					
		Tal	ole I - Non	-Deriv	/ativ	e Se	curities	Acc	quired, D	isp	osed of	f, or Ber	neficia	lly Ow	ned					
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						ear)	2A. Deemed Execution Date, if any (Month/Day/Year		3. Transact Code (In 8)		ies Acquire Of (D) (Insi		4 and Securit		s Illy ollowing	Form:	Direct I Indirect I str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	/	Amount	ount (A) or Pr		Tra	Transaction(s) (Instr. 3 and 4)				msu. 4)		
			Table II - [/ Own	ed					
			•	<u> </u>	juis,	Can	·		options	<u> </u>										
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Di if any (Month/Day/	ate, Ti	4. Transaction Code (Instr. 8)				6. Date Exercisable Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Sec (Instr. 3 and 4)		Deriv Secu (Instr	B. Price of Derivative Security Instr. 5)	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	Code	v	(A)	(D)	Date Exercisable		expiration pate	Title	Amoun or Numbe of Shares			(Instr. 4)	(3)			
Stock Option (right to buy)	\$0.5	09/30/2019			A		6,451 ⁽¹⁾		09/30/2019	0	9/30/2029	Common Stock	6,451	\$0.	.46	6,451		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 third quarter of 2019.

/s/ Megan N. Gates, attorney-

in-fact

** Signature of Reporting Person

Date

10/02/2019

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.