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)					
KELLOGG PETER N					1		DIO DI	<u> </u>	<u>JILITOI</u>		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	TLIV J		X	Director		10%	Owner	
(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC.						3. Date of Earliest Transaction (Month/Day/Year) 09/28/2018									Officer (below)	give title	Othe belov	r (specify v)	
19 PRESIDENTIAL WAY																			
					4. I	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable					
(Street)														ine) X	Corm fil	ad by One D	onartina Dar		
WOBURN MA 01801													X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)												1 013011				
		Tal	ole I - Non	-Deriva	ativ	e Se	curities	Acc	quired, C	Disp	osed of	f, or Bei	nefici	ally (Owned				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						ear)	2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Dis		Disposed	curities Acquired (A) osed Of (D) (Instr. 3,		4 and Securitie Benefici Owned F		es For ally (D) following (I) (. Ownership orm: Direct O) or Indirect) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
								Code	v	Amount	(A) or (D) Pr		•		ransaction(s) Instr. 3 and 4)		(Instr. 4)		
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
			(e.g., p	uts,	call	s, warra	ınts,	options	s, c	onvertib	le secu	rities)					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Da if any (Month/Day/	ate, Tr Co	4. Transaction Code (Instr. 8)				6. Date Exercisable Expiration Date (Month/Day/Year)			nd 7. Title and Amount of Securities Underlying Derivative Sec (Instr. 3 and 4)					Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership ct (Instr. 4)	
				Co	ode	v	(A)	(D)	Date Exercisabl		Expiration Date	Title	Amou or Numb of Share	er		(Instr. 4)	(3)		
Stock Option (right to buy)	\$1.44	09/28/2018			A		3,512 ⁽¹⁾		09/28/2018	В	09/28/2028	Common Stock	3,51	2	\$1.33	3,512	D		

Explanation of Responses:

1. These options were issued to the Reporting Person pursuant to the Issuer's Director Compensation Policy in lieu of \$4,687 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 2018.

/s/ Megan N. Gates, attorney-

in-fact

** Signature of Reporting Person

Date

10/02/2018

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.