FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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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							DIO DI	<u> </u>	JILIVOL		<u>. () </u>	TLIV J		X	Director			10% Ow	ner	
(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC.						3. Date of Earliest Transaction (Month/Day/Year) 12/31/2018									Officer (below)	give title		Other (sp below)	pecify	
· · · · · · · · · · · · · · · · · · ·																				
19 PRESIDENTIAL WAY						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable						
(Street)														Line) X Form filed by One Reporting Person						
WOBURN MA 01801													Form filed by More than One Reporting Person							
(City)	(S	tate)	(Zip)												1 010011					
		Tal	ole I - Non	-Deriva	ativ	e Se	curities	Acc	quired, C	Disp	osed o	f, or Bei	neficia	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	ecurities Acquired (A) osed Of (D) (Instr. 3,			Securities Beneficia Owned Fo	Securities Forn		irect Ir direct B 4) C	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	nount (A) or (D)		:	Transacti			"	nstr. 4)	
			Table II - D												wned					
			(0	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. Transactior Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Sec (Instr. 3 and 4)		D S (I	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction	/ Di or (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Co	ode	v	(A)	(D)	Date Exercisable		Expiration Date	Title	Amour or Number of Shares	er		(Instr. 4)	1(3)			
Stock Option (right to buy)	\$0.83	12/31/2018			A		6,128 ⁽¹⁾		12/31/2018	3 1	2/31/2028	Common Stock	6,12	8	\$0.76	6,128		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 fourth quarter of 2018.

/s/ Megan N. Gates, attorneyin-fact

01/03/2019

Date

** Signature of Reporting Person

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.