FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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).

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				-	2								Director			10% Ow	ner		
(Last)	(F	irst)	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 05/24/2017							Officer (below)	(give title		Other (spelow)	oecify			
C/O YIELD10 BIOSCIENCE, INC.						03/24/201/													
19 PRESIDENTIAL WAY					4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable						
(Street)					_								Line		ed by One	Danoi	rting Person		
WOBUR	RN M	IA	01801											_	ed by More		One Report	ing	
(City)	(S	itate)	(Zip)											1 613011					
		Ta	ble I - Nor	n-Deri	vativ	/e Se	curities	Acc	uired,	Dis	posed of	, or Ben	eficially	/ Owned					
1. Title of Security (Instr. 3) 2. Transa Date (Month/Date)					Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4)				Beneficia Owned F	es For ally (D) following (I) (: Direct I Indirect E str. 4) C	7. Nature of Indirect Beneficial Ownership				
								Code	v	Amount	(A) or (D)	Price	Reported Transacti (Instr. 3 a	ction(s)			Instr. 4)		
Common Stock 05/24/				24/201	2017		A		22,321 ⁽¹⁾ A		\$0	34,	34,821		D				
			Table II -								osed of, convertib			Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution D	ate, Transa Code (Derivative		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 Transaction(s)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisa	ble	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	on(s)			
Stock Option (right to buy)	\$0.42	05/24/2017			A		25,000 ⁽²⁾		05/24/20	18	05/24/2027	Common Stock	25,000	\$0	25,000)	D		

Explanation of Responses:

- 1. These shares were issued to the Reporting Person pursuant to the Issuer's Director Compensation Policy for services rendered to the Issuer as a member of its Board of Directors and/or a committee thereof during the first quarter of 2017.
- 2. 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.

/s/ Megan N. Gates, attorney-in-

fact

** 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.