FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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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* BRUM LYNNE H				2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]					(Ch	eck all applic	able)	erson(s) to Issu 10% Ow Other (s	ner		
(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC. 19 PRESIDENTIAL WAY				3. Date of Earliest Transaction (Month/Day/Year) 05/23/2018						X Officer (give title Officer (specify below) VP Planning & Comms					
(Street) WOBURN MA 01801 (City) (State) (Zip) 4. If Amendment, Date of Original Filed (Month/Day/Yea					ay/Year)	6. I	e) <mark>X</mark> Form fil	led by One Re led by More th	ng (Check App eporting Person aan One Report						
1. Title of Security (Instr. 3) 2. Transa Date			Transactio	2A. Deemed Execution Date,		3. Transacti Code (Ins	Transaction Code (Instr. 3, 4 8)		red (A) or str. 3, 4 and	5. Amour Securities Beneficia Owned For Reported	Form (D) of (I) (In	orm: Direct) or Indirect (Instr. 4)	7. Nature of ndirect Beneficial Ownership 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)	or Exercise (Month/Day/Year) if any		Execution Date,	Code (Instr.		Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		of Secur Underlyi Derivativ	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	s)	
Stock Option (right to buy)	\$1.65	05/23/2018		A		100,000		(1)	05/23/2028	Common Stock	100,000	\$0	100,000	D	

Explanation of Responses:

 $1. These \ options \ will \ vest \ and \ become \ exercisable \ in \ equal \ quarterly \ installments \ over \ 4 \ years \ from \ 5/23/18, \ beginning \ on \ 8/23/2018 \ and \ ending \ on \ 5/23/2022.$

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