## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

wasiiiigton,	D.C.	20549	

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(h)

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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 <b>and</b> Ticker or Trading Symbol  YIELD10 BIOSCIENCE, INC. [ YTEN ]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner  Officer (give title Other (specify					
(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC. 19 PRESIDENTIAL WAY						3. Date of Earliest Transaction (Month/Day/Year) 04/01/2019									X Officer (give title Other (specify below)  VP Planning & Comms					
(Street) WOBURN MA 01801						4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line)      X Form filed by One Reporting Person     Form filed by More than One Reporting Person					
(City) (State) (Zip)  Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)				action	ction 2A. Deemed Execution Date,		3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3,			(A) or	or 5. Am 1 and Secur Benef		ount of ties cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
								Code	v	Amount	(A) or (D) Pr		Price	- 1-	Transaction(s) (Instr. 3 and 4)			, , ,		
Common Stock 04/01/					L/ <mark>2019</mark>	2019		F		679(1)		D	\$1.	\$1.16		7,469	D			
Common Stock														16		5,314 <sup>(2)</sup>	I	By 401(k) Plan		
	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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date,	4. Transa Code (I 8)		of Deriv Secu Acqu (A) o Disp of (D	r osed ) r. 3, 4	6. Date E Expiratio (Month/D	•	le and Amount of Securities Underlying Derivative Security (Instr. and 4)		str. 3	8. Price Derivati Security (Instr. 5			Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Nun of	ount nber res						

## **Explanation of Responses:**

- $1.\ Represents\ shares\ withholding\ taxes\ upon\ vesting\ of\ RSUs\ granted\ 4/1/15.$
- $2. \ Shares \ acquired \ as \ Company \ matching \ contributions \ under \ the \ Yield 10 \ Bioscience, \ Inc. \ 401(k) \ Plan.$

/s/ Megan N. Gates, attorneyin-fact

04/03/2019

Date

<u>m-ract</u>

\*\* Signature of Reporting Person

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.