SEC For	m 4																	
FORM 4 UNITED STAT					TES	S SE			ES AND		NGE (	СОММ	ISSION		ОМВ	APPRO	/AL	
Section 16. Form 4 or Form 5 obligations may continue. See					d purs	NT OF CHANGES IN BENEFICIAL OWNE								SHIP OMB Numb Estimated a hours per re			0.5	
1. Name and Address of Reporting Person* BRUM LYNNE H									ker or Trading CIENCE			heck all applic Directo	able)	, 10% Own				
(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC. 19 PRESIDENTIAL WAY						3. Date of Earliest Transaction (Month/Day/Year) 05/28/2020							X Once (give the below) below) VP Planning & Comms					
(Street) WOBURN MA 01801					4. 11	f Ame	endment, I	Date	of Original Fil	ed (Month/Da		Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City) (State) (Zip)																		
1. Title of s	Security (Ins			-Deriva			2A. Deemo		quired, Di	·	of, or Be		5. Amou		6. Ow	nership 7	. Nature	
Date (Month/D						ear)	Execution Date if any (Month/Day/Yea		, Transaction Code (Ins	on Disposed	Of (D) (Instr. 3, 4 an			lly (D) o ollowing (I) (I	Form: (D) or	or Indirect I nstr. 4)	of Indirect	
									Code V	Amount	(A) o (D)	Price	Transact (Instr. 3 a	ion(s)	s) 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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution D if any (Month/Day/	ate, Ti	ransaction Code (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exerc Expiration Da (Month/Day/N	ate	of Securities		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e S Ily I	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				c	ode	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares						
Stock Option (right to buy)	\$5.86	05/28/2020			A		21,000		(1)	05/28/2030	Common Stock	21,000	\$0	21,000	0	D		

Explanation of Responses:

1. These options will vest and become exercisable in equal quarterly installments over 4 years from 5/28/2020, beginning on 8/28/2020 and ending on 5/28/2024.

## <u>/s/ Megan N. Gates, attorney-</u> in-fact

05/29/2020

\*\* 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.