FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D	C. 20549
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

	ction 1(b).	ide. dee		Filed							ies Exchang mpany Act o		1934		liours	s per re	esponse:	0.5
1. Name and Address of Reporting Person* BRUM LYNNE H					2. Issuer Name and 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) 03/01/2022									A below	w) TP Plannin	g and	below)	
(Street) WOBUF (City)			1801 Zip)		4. If <i>i</i>	4. If Amendment, Date of Original Filed (Month/Day/Year)								ine) X Form Form	dual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Table	I - Nor	n-Deriva	tive \$	Secu	rities	Acq	uired,	Dis	posed of	, or B	enefic	ially Own	ed			
1. Title of Security (Instr. 3) 2. Transa Date (Month/D			Execution Date,			3. 4. Securities Acquired (// Disposed Of (D) (Instr. 3 5)				and Securi Benefi	ities Foicially (Display (Disp		m: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership				
									Code	v	Amount	(A) o (D)	Price	Transa	action(s) 3 and 4)			(Instr. 4)
Common	Common Stock 03/01/2				2022			F		366(1)	D	\$4.	25 1	10,216		D		
Common Stock													4,	4,880 ⁽²⁾		I	By 401(k) Plan	
		Tal									osed of, convertib			lly Owne s)	d			
1. Title of Derivative Security (Instr. 3)	rivative Conversion Date Execution Date, curity or Exercise (Month/Day/Year) if any			Transaction of Code (Instr. 8) Sc AA (A Di of (Instr. 8) (Instr. 8)		of Deriv Secu Acqu (A) o Disp of (D	osed) r. 3, 4	Expiration Da (Month/Day/Y		ite	7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownershij (Instr. 4)	
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date		of Shares					

Explanation of Responses:

- $1. \ Represents \ shares \ withheld \ in \ payment \ of \ withholding \ taxes \ upon \ partial \ vesting \ of \ RSUs \ granted \ 3/1/2021.$
- 2. Shares acquired as Issuer matching contributions under the Yieldl0 Bioscience, Inc. 40l(k) Plan.

/s/ Megan N. Gates, attorney-

in-fact

** Signature of Reporting Person Date

03/03/2022

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.