FORM 4

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								

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]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below)						
(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC. 19 PRESIDENTIAL WAY, SUITE 201						3. Date of Earliest Transaction (Month/Day/Year) 02/10/2023									VP Planning and Communications					
(Street) WOBUR			1801		4. If A	Amendi	ment,	Date o	of Original Filed (Month/Day/Year)						Individual or Joint/Group Filing (Check Application) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(Sta	ate) (Z	Zip)																	
İ		Table	I - Noi	n-Deriva	tive S	Secui	rities	Acq	uired,	Dis	posed of	, or B	enefi	cially	/ Own	ed				
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day					Execution Date,		3. Transaction Code (Instr. 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)			4 and Securit		ies ially Following	Form (D) or	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
				Code	v	Amount	(A) (D)	(A) or Price		Transaction(s) (Instr. 3 and 4)				(
Common Stock 02/10/2					2023	023			F	1,029(1)		D	\$3	3.59	8,323			D		
Common Stock														9,924 ⁽²⁾			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)	ivative Conversion Date Execution Date, urity or Exercise (Month/Day/Year) if any				4. Transaction Code (Instr. 8)		of Deriv Secu Acqu (A) of Dispo	sposed (D) str. 3, 4		on Da	te	7. Title and Amount of Securities Underlying Derivative Security (Insti 3 and 4)		Der Sed (Ins	Price of rivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amoun or Numbe of Shares							

Explanation of Responses:

- 1. Represents shares withheld in payment of withholding taxes upon partial vesting of RSUs granted 2/10/2022
- $2. \ Shares \ acquired \ as \ Issuer \ matching \ contribution \ under \ the \ Yield 10 \ Bioscience, \ Inc. \ 401(k) \ Plan.$

Remarks:

Charles B. Haaser, attorney-

in-fact

** Signature of Reporting Person Date

02/14/2023

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.