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

Name and Address of Reporting Person*				2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
<u>Peoples Oliver P</u>												X Directo	r		10% Ow	ner
(Last)	(Fi	rst)	(Middle)		Date of Earliest Transaction (Month/Day/Year)							X Officer below)	(give title		Other (sp below)	pecify
C/O YIELD10 BIOSCIENCE, INC.					01/12/2023					President and CEO						
19 PRESIDENTIAL WAY, SUITE 201																
,				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)					6. lı	6. Individual or Joint/Group Filing (Check Applicable					
(Street) WOBUR	N M	A	01801								Line	X Form f	led by One		•	
(City)	(Si	tate)	(Zip)		Form filed by More than One Reporting Person											
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
Date			ransactior e nth/Day/Y	Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4) 5)			ed (A) or tr. 3, 4 and	Beneficia	es Fo ially (D Following (I)	6. Owner Form: Di (D) or Ind (I) (Instr.	rect c direct E 4) C	7. Nature of Indirect Beneficial Ownership		
								Code V	Amount	(A) or (D)	Price	Transact (Instr. 3 a	ion(s)			nstr. 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 Date, if any (Month/Day/Year	tion Date, Transaction of Code (Instr. Derivative		ve es d ed nstr.	6. Date Exercisable and Expiration Date (Month/Day/Year) 7. Title and Amof Securities Underlying Derivative Secu (Instr. 3 and 4)			ies g Security	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ov Fo Dii or (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares					
Stock Option (right to buy)	\$3.15	01/12/2023		A		65,000		(1)	01/12/2033	Common Stock	65,000	\$0	65,000		D	

Explanation of Responses:

1. These options will vest and become exercisable in equal quarterly installments over 4 years from 1/12/2023, beginning on 4/12/2023 and ending on 1/12/2027.

Remarks:

Charles B. Haaser, attorney-in-01/13/2023 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.