SEC Form 4	
FORM	4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

Check this box to indicate that a transaction was made pursuant to a

contract, instruction or written plan for the purchase or sale of equity securities of the issuer that is

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									

Estimated average burden hours per response: 0.5

	isfy the affirmative ions of Rule 10b5- uction 10.						
1. Name and Addr <u>Peoples Oliv</u> (Last) C/O YIELD10	ver P (First)	(Middle)	2. Issuer Name and Ticker or Trading Symbol <u>YIELD10 BIOSCIENCE, INC.</u> [YTEN] 3. Date of Earliest Transaction (Month/Day/Year) 08/15/2024				
19 PRESIDEN	TIAL WAY, S	UITE 201					
(Street) WOBURN (City)	MA (State)	01801 (Zip)	 4. If Amendment, Date of Original Filed (Month/Day/Year) 	6. Indiv Line)	vidual or Joint/Group Fil Form filed by One Re Form filed by More th Person	eporting Person	

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr.		4. Securities A Disposed Of (5)			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	
Common Stock	08/15/2024		F		1,463(1)(2)	D	\$1.5	12,634	D		
Common Stock								2,403(3)	Ι	By 401(k) Plan	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

	(e.g., puts, cans, warrants, options, convertible sec						cunties	,							
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)	4. Transa Code (8)		of Deriv Secu Acqu (A) o Dispe of (D	r osed) r. 3, 4	6. Date Exerc Expiration Da (Month/Day/Y	ite	Deriv	unt of rities rlying ative rity (Instr.	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	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				

Explanation of Responses:

1. Represents shares withheld in payment of withholding taxes upon partial vesting of RSUs granted 2/15/2024.

2. Share numbers reflect the 1:24 reverse stock split effected on 5/2/2024.

3. Shares acquired as Issuer matching contribution under the Yield10 Bioscience, Inc. 401(k) Plan.

<u>/s/ Megan N. Gates, attorney-</u> <u>08/19/2024</u>

** 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.