SEC Form 4	
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Instruction 1(b).

## 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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)MB	APPROVAL	

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STATEMENT	OF	CHANG	ES IN	BENEF	OWNER	RSHIP

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 Addr		<sup>p</sup> erson <sup>*</sup>		. Issuer Name <b>and</b> Tick /IELD10 BIOS				en 1		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
Peoples Oliv	<u>ver P</u>		-	ILLDIO DIOS		<u>CL</u> ,		X	Director	10% (	Owner		
(Last)	(First)	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 02/15/2024						Officer (give title below)	Other below	(specify )	
C/O YIELD10 BIOSCIENCE, INC.				2/13/2024						Presiden	t and CEO		
19 PRESIDENTIAL WAY										6. Individual or Joint/Group Filing (Check Applicable Line)			
(Street)									X	Form filed by On	e Reporting Per	son	
WOBURN	MA	01801								Form filed by Mo Person	re than One Re	porting	
(City)	(State)	(Zip)	F	Rule 10b5-1(c) Transaction Indication									
				Check this box to indicate that a transaction was made pursuant to satisfy the affirmative defense conditions of Rule 10b5-1(c). See In							ten plan that is inf	ended to	
		Table I - No	n-Derivativ	e Securities Acq	uired	, Dis	posed of, o	or Ber	eficially	y Owned			
Date		2. Transaction Date (Month/Day/Ye	Execution Date,	3. 4. Securities Acquired (/ Disposed Of (D) (Instr. 3 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership				
				Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)		
Common Stock	C C		02/15/2024	4	A		200,000 <sup>(1)</sup>	A	\$0.3	238,308	D		
												By	

## 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)	4. Transa Code ( 8)		of Deriv Secu Acqu (A) o Dispe	r osed ) r. 3, 4	6. Date Exerc Expiration Da (Month/Day/Y	ate	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:

Common Stock

1. The securities awarded are in the form of restricted stock units ("RSUs"). Each RSU represents a contingent right to receive one share of the Issuer's common stock. The RSUs will vest as to 50% of the shares on 8/15/2024 and the remaining 50% on 2/15/2025.

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

<u>/s/ Megan N. Gates, attorney-</u> <u>in-fact</u> <u>02/16/2024</u>

35,873(2)

401(k)

Plan

I

\*\* 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.