FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C. 20549
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Check this box if no longer subject
to Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(h)

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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*     Peoples Oliver P						2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [ YTEN ]									k all app Direc	tionship of Reporting Per all applicable) Director Officer (give title		rson(s) to Issuer  10% Owner  Other (specify		
(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC. 19 PRESIDENTIAL WAY, SUITE 201						3. Date of Earliest Transaction (Month/Day/Year) 02/10/2023										below) below)  President and CEO				
(Street) WOBUR (City)			1801 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									Form	r Joint/Group Filing (Check Applicable n filed by One Reporting Person n filed by More than One Reporting on				
		Table	I - Noi	n-Deriva	tive S	Secui	rities	Acq	uired,	Dis	posed of	, or E	Benef	icially	y Own	ed				
			2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)			4 and Securi Benefi Owned		ies cially Following	Forn (D) o	n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership			
							Code	v	Amount	(A) (D)	or P	rice		action(s) 3 and 4)			(Instr. 4)			
Common	mmon Stock 02/			02/10/	2023				F		6,298(1)	Г	) [	3.59	.59 38,30		D			
Common Stock														8,853 <sup>(2)</sup>			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)	2. Conversion or Exercise Price of Derivative Security	Conversion Date (Month/Day/Year) Execution Date, Code (if any Code (Month/Day/Year) (Month/Day/Year) 8)			Transa Code (	5. Numbo of Derivativ Securitie Acquirer (A) or Dispose of (D) (Instr. 3, and 5)			6. Date Expirati (Month/	ion Da		Amount of		De Se (In		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code V		(A)	(D)			Expiration Date	Title	Amou or Numb of Share	er						

## **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 Yield10 Bioscience, Inc. 401(k) Plan.

## Remarks:

Charles B. Haaser, attorney-

in-fact

02/14/2023

\*\* 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.