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										
11	OMB Number: 3235-0287									
Estimated average burden										
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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*  HAASER CHARLES B				2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [ YTEN ]								all app Direc Office	tor er (give title		10% O	wner			
(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC. 19 PRESIDENTIAL WAY					3. Date of Earliest Transaction (Month/Day/Year) 08/10/2022								Λ	below	,	and CAO			
(Street) WOBUR			1801		4. If Amendment, Date of Original Filed (Month/Day/Year)								. Indivine)	,					
(City)	(Sta	ate) (Z	Zip)																
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
Date			2. Transac Date (Month/Da	Execution Date		cution Date,	Code (Instr.					3, 4 and Secur Benef		cially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	v	Amount	(A) o (D)	r Pric	e	Transa	ction(s) 3 and 4)			(	
Common Stock 08/10				08/10/	2022		F		822(1)	D	\$2	.68	11,279		D				
Common Stock													6,9	999(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)	Derivative Conversion Date Security or Exercise (Month/Day/Year)   Execution Date,				4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Expirati (Month/	on Da	te Amou Secur Under Deriva Secur		Amount of Securities		Price of ivative curity str. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ownershi Form: Iy Direct (D) or Indirect (I) (Instr. 4		11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A) (D)	Date Exercis	able	Expiration Date		Amount or Number 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 contributions under the Yield10 Bioscience, Inc. 401(k) Plan.

### Remarks:

Exhibit 24.1 - Power of Attorney

/s/ Lynne H. Brum, Attorney-08/12/2022 in-Fact

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.

#### POWER OF ATTORNEY

Know all by these presents, that the undersigned hereby constitutes and appoints Lynne H. Brum of Yield10 Bioscience, Inc. (the "Company"), and Megan Gates, Page Hubben, Nadia Do Canto, Danielle Barney, Brenda Meyette, Robyn Frattali and Nyisha Shakur, each of Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., signing singly, with full power of substitution, the undersigned's true and lawful attorney-in-fact to:

- (1) execute for and on behalf of the undersigned, forms and authentication documents for EDGAR Filing Access;
- (2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such forms and authentication documents;
- (3) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer, director and/or 10% shareholder of the Company, Forms 3, 4 and 5 in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules thereunder;
- do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form 3, 4 or 5 and timely file such form with the United States Securities and Exchange Commission and any stock exchange or similar authority; and
- take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact, on behalf of the undersigned pursuant to this Power of Attorney, shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, is not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4 and 5 with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed this 27<sup>th</sup> day of July, 2022.

/s/ Charles B. Haaser

Signature

CHARLES B. HAASER Print Name