FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Machinatan	D C	20540	
Nashington,	D.C.	20049	

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OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours ner resnons	e 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* VAN NOSTRAND ROBERT L					2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN] 3. Date of Earliest Transaction (Month/Day/Year)							ck all app	,	ng Pers	son(s) to Is 10% Ov	vner				
(Last)	(Fir	st) (N	Middle)		12/2	12/29/2023							below			below)	, ,			
l		SCIENCE, INC.			4. If A	If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable						
19 PRES	IDENTIAL	WAY, SUITE 2	.01										1 ′	Line) X Form filed by One Reporting Person						
(Street)	ın M	A 0	1801												Form filed by More than One Reporting Person					
					Rul	e 10)b5-	1(c)	Trans	sact	tion Indi	catio	on							
(City)	(Sta	ate) (Z	Zip)		Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.															
		Table	I - Nor	n-Deriva	tive S	Secui	rities	Acq	uired,	Dis	posed of	, or E	Bene	ficial	y Own	ed				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da				Execution Date,		Date,			es Acquired (A) Of (D) (Instr. 3, 4			5. Amo Securit Benefic Owned Reporte	ies cially Following	Form:	Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
									Code	v	Amount	(A) (D)	or	Price	Transaction(s) (Instr. 3 and 4)				(111511. 4)	
Common	Stock			12/29/	2023				Α		18,879	A	١	\$ <mark>0</mark>	\$0 36,711		I) (1)		
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, if any		4. Transa Code (8)			6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)		Di Sc (Ii	Price of erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y C	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)				
					Code	Code V (A) (D)		Date Exercisa	able	Expiration Date	Title	Amous or Number of Shares								

Explanation of Responses:

1. Shares were issued to the Reporting Person pursuant to the Issuer's Director Compensation Policy in lieu of \$4,531 of cash compensation for services rendered to the Issuer as a member of its Board of Directors and/or a committee thereof during the fourth quarter of 2023.

Remarks:

/s/ Charles B. Haaser, attorney-in-Fact

01/03/2024

** 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.