FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Machinatan	D C	20540	
Nashington,	D.C.	20049	

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPROVAL											
OMB Number:	3235-0287										
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hours per response:	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* Sinskey Anthony J					2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]							(Che	eck all app	ationship of Reportin all applicable) Director		son(s) to Is 10% Ov			
(Last)	(Fir	st) (N	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 12/29/2023								Office below	er (give title v)		Other (s below)	specify	
C/O YIELD10 BIOSCIENCE, INC. 19 PRESIDENTIAL WAY, SUITE 201					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)						Line	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person						
(Street) WOBUR					Dut	Form filed by More than One Reporting Person										orting			
(City)	(Sta	ate) (Z	Zip)		$ _{\square}$	Rule 10b5-1(c) Transaction Indication 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.									nded to				
		Table	I - No	n-Deriva	tive S	Secu	rities	Acq	uired,	Dis	posed of	, or E	3ene	eficia	lly Own	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da				Execution (Year) if any		ution Date,		3. Transaction Code (Instr. 8) 4. Securitie Disposed 0 5)		es Acquired (A) o Of (D) (Instr. 3, 4 a		(A) or 3, 4 and	Benefic Owned	ies cially Following	Form: (D) or	Form: Direct D) or Indirect I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
									Code V		Amount	(A) (D)	or	Price	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)
Common Stock 12/2				12/29/	2023				A 16,2		16,275(1	6,275 ⁽¹⁾ A		\$ <mark>0</mark>	43	3,713		D	
	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)	if any	omed on Date, (Day/Year)		saction de (Instr. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		nstr.	B. Price of Derivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transactior (Instr. 4)	y [0	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	or Num of Shar	nber					

Explanation of Responses:

1. Shares were issued to the Reporting Person pursuant to the Issuer's Director Compensation Policy in lieu of \$3,906 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.