FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Machinatan	D C	20540	
Nashington,	D.C.	20049	

STATEMENT	OF CHANG	SES IN BEI	NEFICIAL C	WNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burd	den								
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	elationship ck all app Direc	,	ng Per	rson(s) to Is					
(Last)	(Fir	st) (M	Middle)	,		3. Date of Earliest Transaction (Month/Day/Year) 03/28/2024									Office below	er (give title		Other (s below)	specify		
C/O YIE	LD10 BIO	SCIENCE, INC.			4. If A	Amend	ment,	Date o	f Origina	al Filed	d (Month/Da	y/Year	r)	6. In	6. Individual or Joint/Group Filing (Check Applicable						
19 PRES	SIDENTIAL	WAY, SUITE 2	.01									l '	Line) X Form filed by One Reporting Person								
														^		,		Ü			
(Street) WOBUR	RN MA	A 0	1801												Form filed by More than One Reporting Person						
,					Rul	Rule 10b5-1(c) Transaction Indication															
(City)	(St	ate) (Ž	<u>Z</u> ip)			Check this box to indicate that a transaction was made pursuant to															
			satisty t	he affiri	mative	detense o	condition	ons of Rule 10	Ub5-1(c	c). See II	nstruct	ion 10.									
		Table	I - Nor	n-Deriva	tive S	Secu	rities	Acq	uired,	Dis	posed of	, or I	Benef	icial	ly Own	ed					
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execution Da		Date,	Transaction Dis		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)		, 4 and Secur Benef Owne		ially Following	Form (D) o	Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership					
									Code	v	Amount	mount (A) or (D)		rice	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)		
Common	Stock			03/28/	2024			Α		20,561	A \$0		0 64,274]	D ⁽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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deel Execution if any (Month/I			nsaction of		Expiration Date (Month/Day/Year) Amou Secur Under Derivation		erlying vative erity (Ins	S (I	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owne Form Direct or Ind (I) (Ins	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	Amou or Numb of Share	er							

Explanation of Responses:

1. Shares were issued to the Reporting Person pursuant to the Issuer's Director Compensation Policy in lieu of \$7,813 of cash compensation for services rendered to the Issuer as a member of its Board of Directors and/or a committee thereof during the first quarter of 2024.

Remarks:

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

04/01/2024

** 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.