SEC For	rm 4 FORM	٨				FCURITIE	9 A N	חו	E	ХСНАВ		FCC	MMIS							
		4		TES SECURITIES AND EXCHANGE COM Washington, D.C. 20549										OMB APPROVAL		VAL				
Sectio obligation	this box if no lo n 16. Form 4 or tions may contin ction 1(b).		STAT	ed pursuan	NT OF CHANGES IN BENEFICIAL OWNE d pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940									CMB Number: 3235-024 Estimated average burden hours per response: 0						
1. Name and Address of Reporting Person* Sinskey Anthony J						2. Issuer Name and Ticker or Trading Symbol <u>YIELD10 BIOSCIENCE, INC.</u> [YTEN]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owne				wner		
(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC.						3. Date of Earliest Transaction (Month/Day/Year) 12/31/2022									Officer (give title Other (specify below) below)					
19 PRESIDENTIAL WAY, SUITE 201					4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Inc Line)	6. Individual or Joint/Group Filing (Check Applicable Line)							
(Street) WOBURN MA 01801														X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)																	
		Tal	ole I - Nor	n-Deriv	ative Se	ocurities Acq	luired	, Di	sp	osed of	f, oı	r Bene	ficially	Owned						
1. Title of Security (Instr. 3) 2. Transa Date (Month/L					saction /Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Code	Transaction Code (Instr.		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)						6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
							Code	, v		Amount		(A) or (D)	Price	Transact (Instr. 3 a	ion(s)			(11511. 4)		
Common Stock 01/03							G			5,000		D	\$ <mark>0</mark>	12,	309		D			
						urities Acqu ls, warrants,								Owned						
1. Title of Derivative				I. Transaction		6. Date Exercisable and Expiration Date				7. Title and Amount of		8. Price of Derivative	9. Numbe derivativ		10. Ownership	11. Nature of Indirec				

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exerc Expiration Da (Month/Day/Y	ite	7. Title an Amount o Securities Underlyin Derivative (Instr. 3 an	f g Security	8. Price of Derivative Security (Instr. 5)	Reported	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		Transaction(s) (Instr. 4)		
Stock Option (right to buy)	\$1.67	12/31/2022		A		3,590 ⁽¹⁾		12/31/2022	12/31/2032	Common Stock	3,590	\$1.58	3,590	D	

Explanation of Responses:

1. These options were granted to the Reporting Person pursuant to the Issuer's Director Compensation Policy in lieu of \$5,674 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 2022.

Remarks:

<u>Charles B. Haaser, attorney-in-</u> <u>01/04/2023</u>

** 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.