

[] Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. *See* Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response... 0.5

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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 *					2.	2. Issuer Name and Ticker or Trading Symbol									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
Mears Robert J					A	Atomera Inc [ATOM]									, priedore)			
(Last) (First) (Middle)				3.	3. Date of Earliest Transaction (MM/DD/YYYY)								DirectorX Officer (Director 10% Owner X Officer (give title below) Other (specify below)				
C/O ATOMERA, INC., 750								9/	1/20	21			Chief Techn	ology Offi	icer			
UNIVERSI	ΓΥ AVE	NUE, SU	UITE	280														
	(St	reet)			4.	If A	mendm	ent, Date (Origi	nal Fi	led	(MM/D	D/YYYY	6. Individual	or Joint/G	roup Filing	(Check Appl	icable Line)
LOS GATOS, CA 95032															X Form filed by One Reporting Person			
(City) (State) (Zip)												Form filed b	Form filed by More than One Reporting Person					
														•				
			Table								•			eneficially Owi			1	1
1. Title of Security (Instr. 3) 2. Trans. D				Execution Date, if any		3. Trans. Co (Instr. 8)	4. Securities Acquir or Disposed of (D) (Instr. 3, 4 and 5)			red (A)		. Amount of Securities Beneficially Owned ollowing Reported Transaction(s) instr. 3 and 4)			7. Nature of Indirect Beneficial			
								Code	V	Amou	unt.	(A) or (D)	Price				Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock				9/1/2	021			S	V	2076		(D)	\$24.40		121992		D	
Common Stock				9/1/2	021			M		10000	_	A	\$7.01		131992		D	
Common Stock				9/1/2	021			s		10000	_	D	\$24.18		121992		D	
Common Stock				9/2/2	021			s		2800	_	D	\$24.50		119122		D	
Common Stock															2666		I	By Spouse
	Ta	ıble II - De	erivativ	e Secu	ırities	Bei	ıeficiall	y Owned	(e.g.,	, puts,	, ca	lls, wa	rrants,	options, conv	ertible sec	urities)		
1. Title of Derivate Security (Instr. 3)	Conversion or Exercise Price of Derivative	3. Trans. Date	3A. Dec Executi Date, if		Trans. ode nstr. 8)	8) Derivat Acquir Dispos		re Securities (A) or		Date Exercisable and expiration Date		Securities	nd Amount of s Underlying re Security and 4)	Inderlying Derivative Security Security		Form of Derivative Security:	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
	Security				Code	V	(A)	(D)	Date Exer	cisable		oiration e	Title	Amount or Number of Shares		Following Reported Transaction(s) (Instr. 4)	Direct (D) or Indirect (I) (Instr. 4)	
Stock Options (Right to Buy)	\$7.01	9/1/2021			M			10000 (3)	9/1/	/2017	3/20	0/2027	Commo Stock	on 10000	\$0	110843	D	

Explanation of Responses:

- (1) Represents the number of shares sold by the Reporting Person to cover tax withholding obligations in connection with the vesting of restricted stock grants that were previously reported. This sale is to satisfy mandatory non-discretionary tax withholding obligations by a "sell to cover" transaction.
- (2) The sale reported in this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person.
- (3) The option exercise reported in this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person and exercised from a previously reported total.

Reporting Owners

Reporting Owner Name / Address	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
Mears Robert J								
C/O ATOMERA, INC.			Chief Teehnelegy Officer					
750 UNIVERSITY AVENUE, SUITE 280)		Chief Technology Officer					
LOS GATOS, CA 95032								

Signatures

/s/ Robert J. Mears, by Mindi Zimmer, as Attorney-in-Fact

9/3/2021

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 control number.