

[] 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

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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. Issuer Name and Ticker or Trading Symbol							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
Mears Robe	rt J			At	om	era In	c [AT	OM]									
						3. Date of Earliest Transaction (MM/DD/YYYY)								Director 10% Owner				
	, (,	,										Officer (give title below) Other (specify below) Chief Technology Officer					
C/O ATOM	ERA, INC	C., 750					2/	23/2	2023				Chief Techno	nogy Om	cer			
UNIVERSIT	ΓY AVEN	UE, SUI	TE 280															
	(Stre	et)		4. 1	f Ar	nendme	nt, Date	Origi	inal Fi	led (MN	1/DI	D/YYYY)	6. Individual	or Joint/G	roup Filing	(Check Appl	icable Line)	
LOS GATO	S (14 05)	122											N E 61 11	0 P	e: B			
	,		`										X _ Form filed by One Reporting Person Form filed by More than One Reporting Person					
(0	City) (Sta	te) (Zip))										<u> </u>					
			Table I - I	Non-Der	ivat	ive Sec	urities A	cqui	red, D	ispose	d of	f, or Ber	neficially Owne	ed				
1. Title of Security (Instr. 3)			2. Tı	rans. Date	2A. Deemed		3. Trans.	Code				Following Reported Transaction(s) Ownership of			7. Nature			
				Execution Date, if any		(Instr. 8)			or Disposed of (D) (Instr. 3, 4 and 5)							hip of Indirect Beneficial		
									`							Direct (D) or Indirect	Ownership (Instr. 4)	
) or					(I) (Instr.	(IIIsti. 4)	
G 0: 1							Code	V			D)	Price		125120		4)		
Common Stock			2//	23/2023			A	-	2683	2 12/	A	\$0.00		135130		D		
Common Stock														2666		I	by Spouse	
	m 1			•,•	ь.	e · 11									•			
	1												options, conver			La	T	
Title of Derivate Security	2. Conversion	3. Trans. Date	3A. Deemed Execution	4. Trans.					6. Date Exercisable and Expiration Date 7. Title and Securities U						Number of derivative	10. Ownership	Nature of Indirect	
(Instr. 3) or Exercise Date, if any (Instr. 8)				8) Acquired (A) or Disposed of (D) Derivative S (Instr. 3 and										Securities Beneficially	Form of Derivative	Beneficial Ownership		
Derivative							, 4 and 5)		(Histi: 5 til			(msu. 5 an	(111511. 1		Owned	Security:	(Instr. 4)	
	Security							Dat	te	Expirat	on		Amount or	1	Following Reported	Direct (D) or Indirect		
				Code	v	(A)	(D)	Exe	ercisable		011	Title	Number of Shares		Transaction(s) (Instr. 4)	(I) (Instr. 4)		
Incentive Stock									(1)			Common	1			,		
Option (right to	\$6.56	2/23/2023		A		14689)		<u>(1)</u>	2/23/20	33	Stock	14689	\$0.00	14689	D		
buy)										+	-+		38783	\$0.00	38783	D	+	
	\$6.56	2/23/2023		A		38783	,		<u>(1)</u>	2/23/20	33	Commor Stock	38783	\$0.00	38783	D		

Explanation of Responses:

(1) 6.25% shall vest each quarter for the next 48 months commencing on June 1, 2023

Reporting Owners

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

Signatures

By: Mindi Zimmer, as Attorney in Fact For: Robert Mears

-**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.

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