FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 ar Xiao D (Last) 6409 GU (Street) SAN JOS (City)	MOI [MP] 3. Dat 02/03	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 02/03/2011 4. If Amendment, Date of Original Filed (Month/Day/Year)									X Individue)	Pres. of MPS Astronomy Ast			10% Owner Other (specify below) ssia Operations Filing (Check Applicable					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day					ion y/Year)	2A. D Execu	eemed ution Date,		3. 4. Securi Transaction Disposed Code (Instr. and 5)			rities Acquired (ed Of (D) (Instr. 3			(A) or 5. 3, 4 Se Be		. Amount of ecurities eneficially wned ollowing		Ownership m: Direct or irect (I)	7. Nature of Indirect Beneficial Ownership
						Code	v	Amount	() (I	A) or D)	Price	F	Repor ransa		(iiis	u. 4)	(Instr. 4)			
Common Stock 02					2011				S		187(1)		D	\$14 .	.73	92,428			D	
Common Stock																15,840			I	by Spouse
	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)	re Conversion or Exercise Price of Derivative Security Date (Month/Day/Year) Execution Date, if any (Month/Day/Year)		Code (Ir	ransaction ode (Instr. D D A A A A A A A A A A A A A A A A A		sed . 3, 4	6. Date Expiration (Month/E	n Da	Expiration	7. Title and Amount of Securities Underlying Derivative Security (Instra 3 and 4)		ount nber	8. Prio of Deriva Secur (Instr.	ative ity	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

By: Saria Tseng For: Deming

02/03/2011

Xiao

** 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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