MOSHAYEDI MARK Form SC 13G/A February 16, 2010

SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

SCHEDULE 13G/A

(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT
TO RULES 13d-1(b), (c), AND (d) AND AMENDMENTS THERETO FILED
PURSUANT TO RULE 13d-2

(Amendment No. 10)*

STEC, Inc.

(Name of Issuer)

Common Stock, \$0.001 par value per share

(Title of Class of Securities)

784774 101

(CUSIP Number)

December 31, 2009

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:
"Rule 13d-1(b)

"Rule 13d-1(c)

x Rule 13d-1(d)

^{*} The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 (Act) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. 784774 101 13G/A Page 2 of 10 Pages 1 NAMES OF REPORTING PERSONS Mark Moshayedi 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (b) " (a) " SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 **United States** 5 SOLE VOTING POWER NUMBER OF 350,165 (1) **SHARES** 6 SHARED VOTING POWER **BENEFICIALLY** OWNED BY 3,739,885 (2) 7 SOLE DISPOSITIVE POWER **EACH** REPORTING 350,165 (1) PERSON 8 SHARED DISPOSITIVE POWER WITH 3,739,885 (2) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)

4,090,050 (1)(2)

10

Not Applicable.
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 11

8.1%*

TYPE OF REPORTING PERSON (See Instructions) 12

IN

CUSIP No. 784774 101 13G/A Page 3 of 10 Pages 1 NAMES OF REPORTING PERSONS Semira Moshayedi 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (b) " (a) " SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 **United States** 5 SOLE VOTING POWER NUMBER OF **SHARES** 6 SHARED VOTING POWER **BENEFICIALLY** OWNED BY 3,739,885 (3) 7 SOLE DISPOSITIVE POWER **EACH** REPORTING 0 PERSON 8 SHARED DISPOSITIVE POWER WITH 3,739,885 (3) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9 3,739,885 (3) 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions) x

Refer to Note (3) below.
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

7.4%*

12 TYPE OF REPORTING PERSON (See Instructions)

IN

CUSIP No. 784774 101 13G/A Page 4 of 10 Pages 1 NAMES OF REPORTING PERSONS M. and S. Moshayedi Revocable Trust, dated 9/25/98 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (b) " (a) " SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 California 5 SOLE VOTING POWER NUMBER OF 3,739,885 **SHARES** 6 SHARED VOTING POWER **BENEFICIALLY** OWNED BY 0 7 SOLE DISPOSITIVE POWER **EACH** REPORTING 3,739,885 PERSON 8 SHARED DISPOSITIVE POWER WITH 0 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9 3,739,885 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)

Not Applicable.
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 11

7.4%*

12 TYPE OF REPORTING PERSON (See Instructions)

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Item 1(a) Name of Issuer: STEC, Inc.		
Item 1(b) Address of Issuer s Principal Executive 3001 Daimler Street	Offices:	
Santa Ana, California 92705-5812		
Item 2(a) Name of Person Filing: Mark Moshayedi		
Semira Moshayedi		
M. and S. Moshayedi Revocable Trust, dated 9/25/98		
Item 2(b) Address of Principal Business Offices or 3001 Daimler Street	, if none, Residence:	
Santa Ana, California 92705-5812		
Item 2(c) Citizenship Mark Moshayedi United States		
Semira Moshayedi United States		
M. and S. Moshayedi Revocable Trust, dated 9/25/98	California	
Item 2(d) Title of Class of Securities: Common Stock, \$0.001 par value per share		
Item 2(e) CUSIP Number: 784774 101		
Item 3. If this statement is filed pursuant to Rul	es 13d-1(b) or 13d-2(b) or (c), check wheth	ner the person filing is a:

Not Applicable.

CUSIP No. 784774 101 13G/A Page 6 of 10 Pages Item 4. Ownership. (a) Amount Beneficially Owned: Mark Moshayedi (1)(2) 4,090,050 Semira Moshayedi (3) 3,739,885 M. and S. Moshayedi Revocable Trust, dated 9/25/98 3,739,885 (b) Percent of Class: Mark Moshayedi (1)(2) 8.1%* Semira Moshayedi (3) 7.4%* M. and S. Moshayedi Revocable Trust, dated 9/25/98 7.4%* Number of shares as to which such person has: (i) sole power to vote or to direct the vote: Mark Moshayedi (1) 350,165 Semira Moshayedi 0 M. and S. Moshayedi Revocable Trust, dated 9/25/98 3,739,885 shared power to vote or to direct the vote: (ii) Mark Moshayedi (2) 3,739,885 Semira Moshayedi (3) 3,739,885 M. and S. Moshayedi Revocable Trust, dated 9/25/98 0 sole power to dispose or to direct the disposition of: (iii) Mark Moshayedi (1) 350,165 Semira Moshayedi 0 M. and S. Moshayedi Revocable Trust, dated 9/25/98 3,739,885

shared power to dispose or to direct the disposition of:

Mark Moshayedi (2) 3,739,885

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Semira Moshayedi (3) 3,739,885

M. and S. Moshayedi Revocable Trust, dated 9/25/98 0

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Item 5. Not Applica	Ownership of Five Percent or Lable.	ess of a Class.	
Item 6. Not Applica		ercent on Behalf of Another Person.	
Item 7. Not Applica	Company or Control Person.	of the Subsidiary Which Acquired the Security Bein	g Reported on by the Parent Holding
Item 8. Not Applica	Identification and Classification able.	of Members of the Group.	
Item 9. Not Applica	Notice of Dissolution of Group.		
Item 10. Not Applica	Certifications. able.		

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- * Calculated based on 50,284,438 shares of the Issuer's common stock outstanding as of December 31, 2009. Pursuant to Rule 13d-3 promulgated under the Act, certain securities convertible into, or exchangeable for, shares of common stock, may be deemed to be shares of common stock for purposes of determining beneficial ownership. Pursuant to Rule 13d-3 promulgated under the Act, beneficial ownership means the sole or shared power to vote or direct the voting or to dispose or direct the disposition of any security. A person is deemed as of any date to have beneficial ownership of any security that such person has a right to acquire within 60 days after such date and such security shall be deemed to be outstanding for purposes of calculating such person's percentage ownership. For purposes of calculating the ownership percentage of the Reporting Persons, any securities that any person other than such Reporting Person has the right to acquire within 60 days of such date are not deemed to be outstanding.
- (1) Consists of 350,165 options for the right to purchase common stock exercisable within 60 days of December 31, 2009.
- (2) Consists of 3,739,885 shares held by Mark Moshayedi and Semira Moshayedi, as trustees for the M. and S. Moshayedi Revocable Trust, dated 9/25/98 for the benefit of Mark and Semira Moshayedi s family. Mark Moshayedi has shared voting and dispositive power with respect to the shares held by the M. and S. Moshayedi Revocable Trust. Mark Moshayedi disclaims beneficial ownership, except to the extent of his pecuniary interest therein, if any, of the shares held by the M. and S. Moshayedi Revocable Trust. The filing of this Schedule 13G/A shall not be construed as an admission that Mark Moshayedi is, for purposes of Section 13(d) or 13(g) of the Act, the beneficial owner of such shares.
- (3) Consists of 3,739,885 shares held by Mark Moshayedi and Semira Moshayedi, as trustees for the M. and S. Moshayedi Revocable Trust, dated 9/25/98 for the benefit of Mark and Semira Moshayedi s family. Does not include 350,165 options for the right to purchase common stock exercisable within 60 days of December 31, 2009 held by Semira Moshayedi s spouse. Semira Moshayedi has shared voting and dispositive power with respect to the shares held by the M. and S. Moshayedi Revocable Trust. Semira Moshayedi has no power to vote or direct the vote or dispose or direct the disposition of any shares of common stock held by her spouse. Semira Moshayedi disclaims beneficial ownership, except to the extent of her pecuniary interest therein, if any, of the shares held by the M. and S. Moshayedi Revocable Trust and her spouse. The filing of this Schedule 13G/A shall not be construed as an admission that Semira Moshayedi is, for purposes of Section 13(d) or 13(g) of the Act, the beneficial owner of such shares.

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SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 16, 2010

/s/ Mark Moshayedi Mark Moshayedi

/s/ Semira Moshayedi Semira Moshayedi

M. AND S. MOSHAYEDI REVOCABLE TRUST, DATED 9/25/98

/s/ Mark Moshayedi Mark Moshayedi, Co-Trustee

/s/ Semira Moshayedi Semira Moshayedi, Co-Trustee CUSIP No. 784774 101 13G/A Page 10 of 10 Pages

EXHIBIT A

AGREEMENT FOR JOINT FILING OF SCHEDULE 13G/A

The undersigned and each other person executing this joint filing agreement (the Agreement) agree as follows:

- (1) The undersigned and each other person executing this Agreement are individually eligible to use the Schedule 13G/A to which this Exhibit is attached and such Schedule 13G/A is filed on behalf of the undersigned and each other person executing this Agreement; and
- (2) The undersigned and each other person executing this Agreement are responsible for the timely filing of such Schedule 13G/A and any amendments thereto, and for the completeness and accuracy of the information concerning such person contained therein; but none of the undersigned or any other person executing this Agreement is responsible for the completeness or accuracy of the information concerning any other persons making the filing, unless such person knows or has reason to believe that such information is inaccurate.

This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original, but all of which, taken together, shall constitute one and the same instrument.

Date: February 16, 2010

Signature: /s/ Mark Moshayedi Name: Mark Moshayedi

Signature: /s/ Semira Moshayedi Name: Semira Moshayedi

M. AND S. MOSHAYEDI REVOCABLE TRUST, DATED 9/25/98

Signature: /s/ Mark Moshayedi
Name: Mark Moshayedi
Title: Co-Trustee

Signature: /s/ Semira Moshayedi
Name: Semira Moshayedi
Title: Co-Trustee