SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Schedule 13G

Under the Securities Exchange Act of 1934 (Amendment No.: 7)*

Name of issuer: Microchip Technology Inc

Title of Class of Securities: Common Stock

(Continued on the following page(s))

CUSIP No.: 595017104

1.	NAME (OF REPO	ORTING PI	ERSON		
S	S. OR I.	R.S. IDE	ENTIFICAT	ION NO. O	OF ABOVE I	PERSON

The Vanguard Group - 23-1945930

2. CHECK THE APPROPRIATE [LINE] IF A MEMBER OF A GROUP

A. B.

3. SEC USE ONLY

4. CITIZENSHIP OF PLACE OF ORGANIZATION

Pennsylvania

(For questions 5-8, report the number of shares beneficially owned by each reporting person with:)

5. SOLE VOTING POWER

331,298

6. SHARED VOTING POWER

44,728

7. SOLE DISPOSITIVE POWER

25,181,630

8. SHARED DISPOSITIVE POWER

366,010

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

25,547,640

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

N/A

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

10.92%

12. TYPE OF REPORTING PERSON

IΑ

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G Under the Securities Act of 1934

Check the following [line] if a fee is being paid with this statement N/A
Item 1(a) - Name of Issuer:
Microchip Technology Inc
Item 1(b) - Address of Issuer's Principal Executive Offices:
2355 W. Chandler Blvd Chandler, AZ 85224-6199
Item 2(a) - Name of Person Filing:
The Vanguard Group - 23-1945930
<u>Item 2(b) – Address of Principal Business Office or, if none, residence:</u>
100 Vanguard Blvd. Malvern, PA 19355
<u>Item 2(c) – Citizenship:</u>
Pennsylvania
<u>Item 2(d) - Title of Class of Securities:</u>
Common Stock
<u>Item 2(e) - CUSIP Number</u>
595017104
<u>Item 3 - Type of Filing:</u>
This statement is being filed pursuant to Rule 13d-1. An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E).
Item 4 - Ownership:
(a) Amount Beneficially Owned:
25,547,640
(b) Percent of Class:
10 92%

(c) Number of shares as to which such person has:

(i) sole power to vote or direct to vote: 331,298

(ii) shared power to vote or direct to vote: 44,728

(iii) sole power to dispose of or to direct the disposition of: 25,181,630

(iv) shared power to dispose or to direct the disposition of: 366,010

Comments:

Item 5 - Ownership of Five Percent or Less of a Class:

Not Applicable

<u>Item 6 - Ownership of More Than Five Percent on Behalf of Another Person:</u>

Not applicable

Item 7 - Identification and Classification of the Subsidiary Which Acquired The Security Being Reported on by the Parent Holding Company:

See Attached Appendix A

<u>Item 8 - Identification and Classification of Members of Group:</u>

Not applicable

Item 9 - Notice of Dissolution of Group:

Not applicable

Item 10 - Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired in the ordinary course of business and were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purpose or effect.

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: 02/07/2018

By /s/ Christine M. Buchanan Name: Christine M. Buchanan

Title: Principal

Appendix A

Vanguard Fiduciary Trust Company ("VFTC"), a wholly-owned subsidiary of The Vanguard Group, Inc., is the beneficial owner of 260,469 shares or .11% of the Common Stock outstanding of the Company as a result of its serving as investment manager of collective trust accounts.

Vanguard Investments Australia, Ltd. ("VIA"), a wholly-owned subsidiary of The Vanguard Group, Inc., is the beneficial owner of 174,757 shares or .07% of the Common Stock outstanding of the Company as a result of its serving as investment manager of Australian investment offerings.