## Notes

Chapter 12

## Accounting 351

Spring 2011

California State University, Northridg

### Investments Less than 20% 20-50% Over 50% FAS 115; ASC 320-10-25 ASC 323-10-15 and 35 Equity Method Consolidation Significant influence Control What was management's intent when making the investment? Available Held to **Trading** Cost Securities for Sale Maturity Mark to Market Mark to Market Amortized Cost Cost Not held-to-Expected to Debt No clearly be traded maturity or securities determinable trading market value. months. securities.

### Held to Maturity Alpha purchased 10%, 10-year \$100,000 Beta bonds on July 1 for \$88,530 when other bonds are paying 12%. Interest is paid on June 30 and December 31. $$5,000 \times 11.46992 = $57,350$ $$100,000 \times .31180 = 31,180$ \$88,530 Discount = \$100,000 - \$88,530 = \$11,470 (future interest) The bonds sell for \$88,530 or 88.53 (88.53% of \$100,000) Investment in Held-to-Maturity Securities 100,000 Discount on Bond Investment 11,470 Cash 88,530 Discount on Bonds Payable 11,470 Bonds Payable 100,000

-1	purchased on April 1 (in between inter On June 30, Alpha will receive \$5,000 (6 months) earned only \$2,500 (3 months) of interest.		
	Interest payments = $$100,000 \times 10\% \times \frac{6}{12}$ =		
	Alpha will prepay the interest (\$2,500) that won't	be earned b	y June 30.
	Investment in Held-to-Maturity Securities Interest Receivable (\$100,000 x 10% x \frac{1}{2}) Discount on Bond Investment Cash	100,000 2,500	11,470 91,030
Tune	e 30		
	Cash Interest Receivable Interest Revenue	5,000	2,500 2,500
••••	Investment in Held-to-Maturity Securities Interest Revenue Discount on Bond Investment	100,000 2,500	11,470 91,030
June	<u>Cash</u> 2 30		71,030
	Cash Interest Revenue	5,000	5,000

<u>Balance</u> S	Investment in HTM So Less: Discount on Bon		70
	/alue = <u>88.530</u> 12%	= face interest rate = market interest ra	
Effective In	: Method) \$11,470 discount/2t terest Method)\$88,530 x 6% = \$5, Discount on Bond Investment Interest Revenue		
Effective In	terest Method) \$88,530 × 6% = \$5,  Discount on Bond Investment	312 - \$5,000 = \$312 Roo	

Face interest rate = 10% Market interest rate = 12%		Face interest rate = 12% Market interest rate = 10%		
Investment in HTMS 100,000	Investment in HTM	5 100,000		
	11,470 Premium on Bond Ir 88,530 Cash	ıv 12,463 112,463		
\$88,530 × 6% - \$5,000 = \$312 Roun	nded \$112,463 × 5% - \$6	\$112,463 × 5% - \$6,000 = \$377 Rounder		
Discount on Bond Inv 312 Interest Revenue	2 Interest Revenue 312 Premium on Bo			
Cash 5,000	Cash	6,000		
Interest Revenue	5,000 Interest Reve	nue 6,000		
<u>In 6 months</u>	<u>In 6 months</u>			
(\$88,530 + 312) × 6% - \$5,000 = \$	331 (\$112,463 - 377) x 5	% - \$6,000 = \$396		
Discount on Bond Inv 33 Interest Revenue	1 Interest Revenue Premium on Bo			

	Trading Seci	urities	
Purchased the following equity securities.	Company A B C Total	Cost \$15,000 8,000 10,000 \$33,000	
Investment in Tr Cash	ading Securities	33,000	33,000
Compar	ny Cost	Market Valu	ie
A	\$1 <u>5,00</u> 0	\$13,000	_
End of year 1 B	8,000	5,000	
C	10,000	12,000	
Total	\$33,000	\$30,000	
	n Trading Securities Adjustment – Trading		3,000

	le of Trading S			7,000 1,000
Inves	tment in Tradi	ng Secur	ities	8,000
	Company	<u>Cost</u>		Market Value
End of year 2	À	\$15,000 10,000		\$19,000
Lild of year 2	<sup>⊥</sup>			8,000
	Total	\$25	5,000	\$27,000
	Fair Value /	Adjustmer	nt - Tradin	g Securities
			3,000	Year 1 Ending Balance
Required er	ntry in Year 2	5,000		
Year 2 En	ding Balance	2,000		

<u>Income Statement</u> (Year 1)  Other expenses and losses: Unrealized loss on trading securities	\$3,000
Officialized loss on fracing securifies	ψ3,000
Balance Sheet (Year 1)  Assets Investment in trading securities Less: FV adjustment - trading securities	\$33,000 <u>3,000</u> \$30,000
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# Income Statement (Year 2) Other revenues and gains: Unrealized gain on trading securities \$5,000 Other expenses and losses: Loss on sale of trading securities \$1,000 Balance Sheet (Year 2) Assets Investment in trading securities \$25,000 Add: FV adjustment - trading securities \$27,000

<i>A</i>	Available for Sale					
Purchased the following equity securities.	Company A B C Total	<u>Cost</u> \$15,000 8,000 <u>10,000</u> \$33,000				
Investment in Ava Cash			33,000 33,0	00		
<u>Company</u>	<u>/ Cos</u> \$15.0		<u>et Value</u> 3.000			
End of year 1 B	8,0	00	5,000			
Total	<u>10,0</u> \$33,0		<u>2,000</u> 0,000			

Cash Loss on Sale of Available Investment in Avail				8,000
Company		Cost	Market Va	lue
End of year 2	\$1	5,000	\$19,000	)
C	1	0,000	8,000	<u>)</u>
Total	\$2	5,000	\$27,000	)
Fair Value Adjus	tment - A	vailable-for	-Sale Securities	1
		3,000	Year 1 Ending	Balance
Required entry in Year 2	5,000			
Year 2 Ending Balance	2,000			

### Comprehensive Income

All changes in equity (net assets) except those resulting from investments by and distributions to owners.

Controlled by external market conditions, not a result of operations.

Net income

+ Other Comprehensive Income (OCI)
Comprehensive Income

Net Income

Foreign Currency Translation Adjustment

Unrealized Gains/Losses on Available-for-Sale Securities

Impairment of Investment in Debt Securities

Deferred Gains/Losses on Derivative Financial Instruments

Minimum Pension Liability

Comprehensive Income

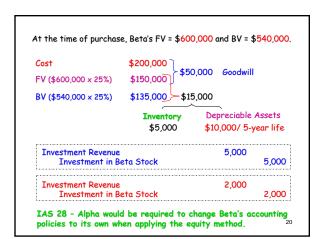
Sales	Combined Statement of Comprehensive					
Cost of goods sold	·					
Gross profit	Income					
Operating expenses Net income						
	and the second second					
Impairment of investment	on available-for-sale securities nt in debt securities n derivative financial instruments					
Comprehensive income						
Sales Cost of goods sold Gross profit	Income Statement					
XXXXXXX Net income						
INET INCOME	Comment of the Comment					
Net income	Comprehensive Income Statement					
Other comprehensive in	come					
Foreign currency trans						
	s on available-for-sale securities					
Impairment of investm						
0.01,00.000,000,000000	on derivative financial instruments					
Minimum pension liabili	ty					
Comprehensive income						

State	nent of	Stock	kholders'	Equity	
	Total	Comp Income	Retained Earnings	Accum Other Comp Inc	Common Stock
Beginning balance Comprehensive income	\$95,000		\$10,000	\$15,000	\$70,000
Net income	2,000	\$2,000	2,000		
Other comprehensive incom	e				
Translation adjustment	500	500		500	
Unrealized gains/losses	300	300		300	
Impairment losses	200	200		200	
Derivative gains/losses	100	100		100	
Minimum pension liability	600	600		600	
Comprehensive income		\$3,700			
Ending balance	\$98,700	-	\$12,000	\$16,700	\$70,000
	Balo	ance Sh	neet		
Stockholders' equity			470.00		45 39 - All
Common stock			\$70,000		ınrealized
Retained earnings			12,000	) gair	ıs/losses are
Accumulated other comp	rehensive	income	16,700	rep	orted in net
Total stockholders' equity			\$98,700	-   .	income

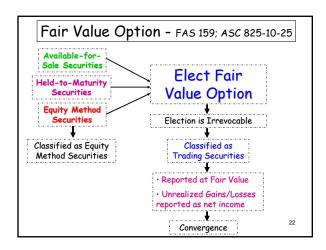
\$1,000
xxxxx
\$5,000
\$25,000
2,000
\$27,000
xxxxx
xxxxx
\$2,000

Facts: Purchased an equity securi	ity for \$10.
Investment - TS 10 Cash 10	Investment - AFSS 10 Cash 10
At year-end, the value is \$15.	
FV Adjustment - TS 5 Unrealized Gain 5 NI	FV Adjustment - AFSS 5 Unrealized Gain 5 OCI
The security is sold for \$12.	
Unrealized Loss - TS 5 NI FV Adjustment - TS 5	Unrealized Loss 5 OCI FV Adjustment - AFSS 5
Cash 12 Investment - TS 10 Gain on Sale 2 NI	Cash 12 Investment - AFSS 10 Gain on Sale 2 NI
or	or
Unrealized Loss - TS 5 Cash 12	Unrealized Loss 5 Cash 12
FV Adjustment - TS 5 Investment - TS 10 Gain on Sale 2	FV Adiustment - AFSS 5 Investment - AFSS 10 Gain on Sale 2

# Equity Method Used when the investor is able to exercise significant control or influence over the investee (20-50% guideline). Alpha purchased 25% of the common stock of Beta for \$200,000. Investment in Beta Stock 200,000 200,000 Beta reported net income for the year of \$240,000. Investment in Beta Stock 60,000 Investment Revenue 60,000 Beta paid a dividend of \$36,000. Cash 9,000 9,000 Investment in Beta Stock 9,000



	How Asset is Reported	Change in Value	Net Income
Held-to- Maturity Security	Amortized Cost     Current or LT	Not recognized	• Interest revenue • Realized G/L
Available- for-Sale Security	• Fair value • Current or LT	Reported in SH Equity as Accum Other Comprehensive Income & I/S as Other Comp Income	• Interest/Dividends • Realized G/L
Trading Security	• Fair value • Current	Reported on I/S as unrealized G/L	<ul><li>Interest/Dividends</li><li>Unrealized G/L</li><li>Realized G/L</li></ul>
Equity Method	Historical cost (adjusted for changes in investee net assets)	Not recognized	Investee's earnings or losses



Alpha purchased 25% of Beta for \$200,000 and elected the fair value option. The fair value and book value of Beta's net assets were \$800,000 (not \$600,000 and \$540,000). At year-end, Beta reported the following: Net income =  $$240,000 ($240,000 \times 25\% = $60,000)$ Dividends paid =  $$36,000 ($36,000 \times 25\% = $9,000)$ Beta's fair value =  $$1,100,000 ($1,100,000 \times 25\% = $275,000)$ Use the equity method the entire year and make the fair value adjustment at year-end. (1) Find the carrying value Cost \$200,000 Share of Beta's income +60,000 Share of Dividends -9,000 23 Carrying value \$251,000

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Treat as a trading security the entire year and make the entire fair value adjustment at year-end.

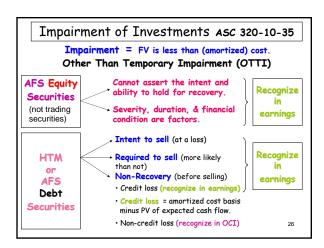
(1) Find the unrealized gain/loss

Unrealized gain/loss = $275,000 - 200,000 = $75,000 gain

Fair Value Adjustment 75,000
Unrealized Gain 75,000

(2) Find what is included in net income

Dividend income $9,000
Unrealized gain 75,000
Included in net income $84,000
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Facts: 5%, 10-year, \$10,000 bond Cost = \$10,000 Interest = \$500 per year After 5 years, FV = \$6,000 Loss = \$10,000 - \$6,000 = \$4,000 Future cash flow: Principal = \$7,000 Interest = 4% or \$400 PV of principal =  $$7,000 \times .78353 = $5,485$ PV of interest =  $$400 \times 4.32948 = 1,732$ PV of future cash flow = \$7,217 Credit loss = \$10,000 - \$7,217 = \$2,783 -Earnings Non-credit loss = \$4,000 - \$2,783 = \$1,217 ---- OCI 27