- Tax Planning & Executive Compensation
- Taxation of various forms of compensation
- Multilateral planning perspective (both employee and employer costs are important)
- Incentive stock options (ISOs)
- Non-qualified stock options (NQSOs)
- Other issues



- Classification of a worker as an *employee*:
  - Employer subject to payroll taxes (i.e., Social Security, Unemployment)
  - Employee subject to regular Social Security tax rather than higher self employment tax
  - Employee unreimbursed business expenses are deductible only as itemized deductions and subject to a limitation
- Classification of a worker as an *independent contractor*:
  - Employer pays no payroll taxes
  - Worker subject to self employment tax
  - Worker's business expenses are always deductible
- IRS does not allow taxpayers to choose whether they are employees, classification is based on strict rules about the relationship between the employer and the employee (e.g., can the employer tell the employee how to do his or her job?)



## Taxation of Various Forms of Compensation

- Current Salary
  - Employee taxable as currently paid
  - Employer deductions as currently paid
- Qualified deferred compensation (e.g., pensions)
  - Employee taxable when received in the future
  - Employer deductions received now



## Taxation of Various Forms of Compensation

- Nonqualified deferred compensation
  - Employee taxable when received in the future
  - Employer deductions received in the future
- Fringe benefits
  - Employee never taxable
  - Employer deductions received now
- Stock options (discussed later)



## Which Form of Compensation is Optimal?

- The optimal form of compensation can't be determined without knowing the following:
  - The current and expected future marginal tax rates of the employee
  - The current and expected future marginal tax rates of the employer
  - The after tax rates of return available to the employer and employee
  - The time horizon
  - Nontax considerations



### Salary vs. Deferred Comp - Multilateral Perspective

Tax rates:	Year 1	Year 2
Employer	40%	60%
Employee	20%	50%

- Both employer & employee can earn a 5% after tax return on investments
- Current plans are to pay the employee \$2,000 of deferred compensation in year 2.



# What would each party prefer under a unilateral perspective?

- ► The employee prefers current salary:
  - current salary yields \$2,000 (1-.2) = \$1,600
  - deferred comp. yields 2,000 (1-.5)/1.05 = 952
- The employer prefers deferred compensation:
  - current salary costs \$2,000 (1-.4) = \$1,200
  - deferred comp. costs 2,000 (1-.6)/1.05 = 762



Can employer be made better off while holding the employee indifferent?

To hold the employee indifferent, she must receive the equivalent of \$952 after tax in present value:

Salary Deferred Comp. S(1-.2) = \$952 \$2,000(1-.5)/1.05 = \$952S = \$1,190

Now evaluate whether the employer still prefers \$2,000 of deferred compensation:

Salary Deferred Comp. \$1,190 (1-.4) versus \$2,000(1-.6)/1.05=\$762 =\$714



# Can employee be made better off while holding the employer indifferent?

To hold the employer indifferent, she must face a compensation cost equivalent to \$762 after tax in present value:

Salary Deferred Comp. S(1-.4) = \$762 \$2,000(1-.6)/1.05 = \$762S = \$1,270

Now evaluate what the employee prefers:

Salary Deferred Comp. \$1,270 (1-.2) versus \$2,000(1-.5)/1.05=\$952 =\$1,016



YES --any current salary between \$1,190 and \$1,270 will make both parties better off. (See below for \$1,225)

Employer is better off because PV after tax cost of \$1,225 salary is less than the PV after tax cost of \$2,000 of deferred compensation:

1,225(1-.4) - [2,000(1-.6)/1.05] =

735 - 762 = -27

Employee is better off because PV after tax benefit of \$1,225 salary is more than the PV after tax benefit of \$2,000 of deferred compensation:

1,225 (1-.2) - 2,000(1-.5)/1.05 =980 - 952 = 28



#### Nontax Costs of Salary & Deferred Compensation

- Moral Hazard -- If we pay an employee a fixed salary with no "deferred component," the employee has no incentive to work
- Risk of Employer Insolvency --In accepting a "future" component in their compensation, employees are accepting the risk that the employer will go bankrupt



## Salary vs. Fringe Benefits

- What are the benefits of a fringe benefit such as employersupplied life and health insurance?
  - Fringe benefits are deductible by the employer and tax exempt to the employee
  - From a strictly tax perspective, this is the "best" way to be compensated
- Would any employees prefer salary over the tax exempt benefits?



- Defined Contribution the employer makes a contribution into an account that will accumulate pension benefits on behalf of the employee --contributions are fixed while outcomes depend on returns earned
- Defined Benefit the employer promises the employee a fixed benefit at retirement, based on salary and/ or years of service, usually in the form of an annuity



- Employer doesn't care --gets deduction either way
- Employee investment grows to:

Pension:  $P = (1+R_{cn})^n (1-t_{pn})$ Salary:  $S = (1-t_{po})(1+r_{pn})^n$ 

where:  $R_{cn}$  = before-tax return on pension  $r_{pn}$  = after-tax return on employee's investments  $t_{po}(t_{pn})$  = employee's tax return today (in period n)

When P > S prefer pensions



Deferred Compensation vs. Pension

• Employer is indifferent between dollar of current salary and deferred compensation of \$D when:

 $D(1-t_{cn}) / (1+r_{cn})^n =$ \$1(1-t\_{co})

 $D = [(1-t_{co}) (1+r_{cn})^{n}] / (1-t_{cn})$ 

• Employee's after tax deferred compensation  $d = D(1-t_{pn})$ 



Deferred Compensation vs. Pension

 A dollar contributed to a pension plan would yield the following at year n:

$$p = (1 + R_{cn})^n (1 - t_{pn})$$

- When p > d then employee prefers pension to deferred compensation
- ► Note:
  - Employee tax rates are irrelevant because under both cases, employees pay tax in year n
  - Employer tax rates matter because with a pension, the deduction is immediate



# Why use "Stock Compensation" Plans in Rewarding Executives?

- Stock compensation plans provide rewards based on an increase in the value of a company's equity
- Plans provide for a direct link between executive compensation and shareholder returns --if executive performance improves the value of the company, both gain



#### % of Firms with Long-term Plans

	Financials	Industrials	Utilities	Services	Private
Any Plan	83%	91%	54%	88%	33%
Options	75%	85%	39%	83%	NA
Stock App. Rights	45%	36%	34%	25%	NA
Restricted Stock	33%	32%	15%	42%	NA
Performance Plans	42%	40%	4%	33%	NA



- Incentive stock options:
  - A right granted by an employer *to an employee* to purchase stock at a particular price during a specific period of time
- Non-qualified stock options:
  - A right granted by an employer to purchase stock at a particular price during a specific period of time
- Stock appreciation rights:
  - Employee receives the appreciation in value of a specified # of shares
- Many others



## Options

- Stock options are the most commonly used form of equity based compensation (employed by over 80% of companies)
- Tax and financial reporting consequences can occur at 3 different points in time:
  - Grant date
  - Exercise date
  - Final sale date



- ISO grant can only be made to an employee
- Option exercise price must be 100% or more of FMV at date of grant (110% if employee is 10% shareholder of the company)
- The life of the option cannot exceed 10 years
- Value of options exercised in any one year is limited to \$100,000 (options exercised in excess of \$100,000 become NQSOs)
- Option must be held 2yr (1yr) from grant (exercise) date



- Federal Taxes -- Employee
  - Employee does not recognize income upon grant or exercise of an ISO
  - Appreciation in value from the grant date to the final sale date is long-term capital gain
- Federal Taxes -- Employer
  - No deduction for compensation expense is allowed



- Financial Reporting Considerations
  - No accounting expense under current FASB rules
  - May decrease EPS due to the dilution effect as the number of outstanding shares increases



 $P_g, P_e, P_s =$  price of stock at various dates (grant, exercise, sale, respectively)

- X = exercise price of options
- $t_c = corporate tax rate$
- $t_p = personal tax rate$
- $t_g = long$  term capital gains rate for individuals



#### **Example of ISO Taxation**

#### Tax Liabilities (Cash Flow Effects)

	Grant	Exercise	Final Sale
Stock Price	$P_{g}$	P <sub>e</sub>	P <sub>s</sub>
Firm	NA	NA	NA
Employee	NA	NA	$-(P_{s} - P_{g})*t_{g}$
	Where I	$P_g = X (grant = e$	xercise)



- In 1992, you receive an ISO to acquire 1,000 shares of your employer's stock at an exercise price of \$30 per share. On that date, the stock traded at \$30 per share. In 1993, you exercised the option when the price was \$42 per share. In 1995, you sold the stock for \$60 per share.
  - What is the amount and character of income to you in 1992, 1993, and 1995?
  - How much is the employer's tax deduction, and when is it deductible?
  - How much is the employer's financial accounting expense and when is it expensed?



## Example of ISO Taxation

- What is the amount and character of income to you in 1992, 1993, and 1995?
  - 1992: Grant date -- No income recognized
  - 1993: Exercise date -- No income recognized
  - 1995: Final sale date --(\$60-\$30)\*(1,000) = \$30,000 of long-term capital gain
- How much is the employer's tax deduction, and when is it deductible?
  - Employer gets no tax deduction
- How much is the employer's financial accounting expense and when is it expensed?
  - Employer reports no financial accounting expenses



Non-qualified Stock Options (NQSOs)

- NQSO grant usually made to an employee (not a requirement)
- Option exercise price may be at a price below FMV at date of grant
- The life of the option is usually 10 years
- Vesting restrictions may exist
- Very flexible
- If an option does not qualify as an ISO then it's a NQSO



## Non-qualified Stock Options (NQSOs)

- Federal Taxes -- Employee
  - Employee does not (generally) recognize income upon grant of a NQSO
  - Employee recognizes income upon exercise of a NQSO (excess of stock price at exercise over option price)
  - Appreciation in value from the exercise date to the final sale date is long-term capital gain
- Federal Taxes -- Employer
  - A deduction for compensation expense equal to the amount included in employee's income at exercise



- Financial Reporting Considerations
  - No accounting expense required under current FASB rules
  - May decrease EPS due to the dilution effect as the number of outstanding shares increases
- Rules are in flux!
  - A number of firms have announced they will expense options.



 $P_g, P_e, P_s =$  price of stock at various dates (grant, exercise, sale, respectively)

- X = exercise price of options
- $t_c = corporate tax rate$
- $t_p = personal tax rate$
- $t_g = long$  term capital gains rate for individuals



#### **Example of NQSO Taxation**

#### Tax Liabilities (Cash Flow Effects)

	Grant	Exercise	Final Sale
Stock Price	$P_{g}$	Pe	P <sub>s</sub>
Firm	NA	$(P_e-X)*t_c$	NA
Employee	NA	$-(P_e-X)*t_p$	$-(P_{s} - P_{e})*t_{g}$



- In 1992, you receive a NQSO to acquire 1,000 shares of your employer's stock at an exercise price of \$30 per share. On that date, the stock traded at \$30 per share. In 1993, you exercised the option when the price was \$42 per share. In 1995, you sold the stock for \$60 per share.
  - What is the amount and character of income to you in 1992, 1993, and 1995?
  - How much is the employer's tax deduction, and when is it deductible?
  - How much is the employer's financial accounting expense and when is it expensed?



## Example of NQSO Taxation

- What is the amount and character of income to you in 1992, 1993, and 1995?
  - 1992: Grant date -- No income recognized
    - 1993: Exercise date --(\$42-\$30)\*(1,000) = \$12,000 of ordinary income
  - 1995: Final sale date --(\$60-\$42)\*(1,000) = \$18,000 of long-term capital gain
- How much is the employer's tax deduction, and when is it deductible?
  - Employer gets a \$12,000 tax deduction in 1993
- How much is the employer's financial accounting expense and when is it expensed?
  - Employer reports no financial accounting expenses



#### ISOs versus NQSOs

- Unilateral planning perspective
  - Employee will prefer ISOs since they provide for more favorable timing (at final sale) and character (long-term capital) of gains
  - Employer will prefer NQSOs since the firm receives a deduction when the employee recognizes ordinary income on the exercise date
- Multilateral planning takes into account both parties to the transaction



### ISOs versus NQSOs

Employee prefers ISOs (minimizes tax cost):

PV(NQSO tax) - PV(ISO tax)

$$= [(P_e - X)t_p + (P_s - P_e)t_g/(1 + r_p)^n] - [(P_s - P_e)t_g/(1 + r_p)^n]$$

$$= (P_e - X)t_p + (P_e - P_g)t_g/(1 + r_p)^n$$

Employer prefers NQSOs (maximize tax benefit):

$$= (P_e - X)t_c$$



## ISOs versus NQSOs

ISOs will be favored when employee preferences > employer preferences:

$$= [(P_{e}-X)t_{p} - (P_{e}-P_{g})t_{g}/(1+r_{p})^{n} - (P_{e}-X)t_{c}$$

$$= (P_e - X)(t_p - t_c) - [(P_e - P_g)t_g/(1 + r_p)^n > 0$$

How does this expression change with:

Increase in  $(t_p - t_c)$ ? (only preferred when  $t_p > t_c$ ) Increase in  $t_g$ ? Increase in  $r_p$ ?



#### Historical Analysis of ISOs versus NQSOs

Before TRA86 (P<sub>e</sub>-X)(.50 - .46) -  $[(P_e-P_g)(.20)/(1+r_p)^n > 0$ 

After TRA86 (P<sub>e</sub>-X)(.28 - .34) -  $[(P_e-P_g)(.28)/(1+r_p)^n < 0$ 

After RRA93 (P<sub>e</sub>-X)(.396 - .35) -  $[(P_e - P_g)(.28)/(1 + r_p)^n > 0$ 

Now

 $(P_e-X)(.396 - .35) - [(P_e-P_g)(.20)/(1+r_p)^n > 0$ 



## **Disqualifying ISOs (Microsoft)**

<u>Year</u> 1987	ISO <u>Tax Benefit</u> \$24,348	Current Federal Taxes Payable \$39,788	Pretax Income Effect \$14,187	After-tax Income Effect \$6,187	Reported <u>Net Income</u> \$71,878
1988	11,554	45,034	14,459	8,850	123,908
1989	14,098	34,659	8,000	4,730	170,538
1990	19,965	84,036	6,000	3,960	279,186
Total	\$69,995	\$203,517	\$42,646	\$23,721	\$645,510

<sup>a</sup>Disclosed by Microsoft as capital contributions <sup>b</sup>Current federal taxes payable after reduction by disqualification tax benefit <sup>c</sup>Book income effects of the payment to employees to disqualify ISO or convert ISO to NQSO. 15.518 Fall 2002



## Stock Appreciation Rights (SARs)

- Characteristics
  - No employee investment is required
  - A maximum value may be placed on the amount of appreciation that may be received
  - Distributions may be made in cash or stock or both
  - Very flexible



- Federal Taxes -- Employee
  - Employee does not recognize income upon grant of an SAR
  - Employee recognizes ordinary income upon exercise
  - If an SAR has a stated maximum appreciation, taxable income occurs when specified maximum is reached
- Federal Taxes -- Employer
  - A deduction for compensation expense equal to the amount included in employee's income at exercise



- Financial Reporting Considerations
  - Estimated expense is accrued from date of grant to date of exercise. Expense is generally equal to the amount of appreciation each year.



## \$1 Million Limit on Deductible Compensation

- Political response to unpopular executive compensation (applies to amounts paid in 1994 and after)
- Section 162(m) limits employer's tax deduction to first \$1 million of compensation paid to certain employees
  - CEO and four other most highly paid officers
  - applies only to compensation paid by publicly held corporations



## \$1 Million Limit on Deductible Compensation

- \$1 million dollar limit does NOT apply to:
  - compensation payable on commission basis
  - certain performance based compensation plans
  - payments to qualified retirement plans
  - compensation paid under written binding contracts in effect on 2/17/93



- Payment to top executive that is contingent upon the loss of his position due to change of control of the company
- Corporation cannot deduct "excessive payments" and executives pay a 20% excise tax on this excess.
- "Excessive payments" are those that are more than 3 times the total annual compensation of the employee



## Types of Retirement Plans

#### Defined benefit

- Promised future retirement payment amount with current contribution actuarially determined
- Defined contribution
  - promised current contribution amount to plan but uncertain future benefit
- Keogh plans for self employed persons
- SEP simplified plan for self-employed
- Individual Retirement Accounts (IRA)

